Audit Report

OFFICE OF THE INSPECTOR GENERAL

TELECOMMUNICATIONS CIRCUIT ALLOCATION PROGRAMS - JACKSONVILLE AREA

Report No. 94-120 June 6, 1994

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Acronyms

AFB	Air Force Base
AUTOVON	Automatic Voice Network
CCSD	Command Communications Service Designator
CISA	Communications Information Services Activity
CSA	Communications Service Authorization
DCA	Defense Communications Agency
DCS	Defense Communications System
DCTN	Defense Commercial Telecommunications Network
DDN	Defense Data Network
DECCO	Defense Commercial Communications Office
DISA	Defense Information Systems Agency
DSN	Defense Switched Network
FTS	Federal Telephone System
RFS	Request for Service
TCO	Telecommunications Certification Office
TMSO	Telecommunications Management and Services Office
WWOLS	Worldwide On-Line System

INSPECTOR GENERAL
DEPARTMENT OF DEFENSE
400 ARMY NAVY DRIVE
ARLINGTON, VIRGINIA 22202-2884

June 6, 1994

MEMORANDUM FOR ASSISTANT SECRETARY OF THE NAVY (FINANCIAL MANAGEMENT)
ASSISTANT SECRETARY OF THE AIR FORCE (FINANCIAL MANAGEMENT AND COMPTROLLER)
DIRECTOR, DEFENSE INFORMATION SYSTEMS AGENCY
DIRECTOR, DEFENSE LOGISTICS AGENCY
DIRECTOR, DEFENSE MAPPING AGENCY
AUDITOR GENERAL, DEPARTMENT OF THE ARMY

SUBJECT: Audit Report on Telecommunications Circuit Allocation Programs - Jacksonville Area (Report No. 94-120)

We are providing this final report for your review and comments. The report identifies reconfiguration and termination opportunities for leased long-haul, special-purpose telecommunications circuits.

Significant changes, in the form of Defense Management Report Decision No. 918, "Defense Information Infrastructure," and DoD Instruction 4640.14, "Base and Long-Haul Telecommunications Equipment and Services," transferred responsibilities for configuration management for Defense Communications System telecommunications circuits either during our audit or subsequent to the completion of our audit field work. A detailed explanation of the changes is provided in the Background section in Part II of the report. The recommendations in this final audit report have been redirected accordingly.

DoD Directive 7650.3 requires that all audit recommendations be resolved promptly. Recommendations and monetary benefits are subject to resolution in accordance with DoD Directive 7650.3 in the event of nonconcurrence or failure to comment. It is requested that the Defense Information Systems Agency provide comments on Recommendation 1. and the revised potential monetary benefits, and the Navy, Air Force and the Defense Logistics Agency provide comments on Recommendation 2. and the revised potential monetary benefits by August 5, 1994.

The courtesies extended to the audit staff are appreciated. If you have questions on this audit, please contact Mr. Robert M. Murrell, Audit Program Director, at (703) 692-2945 (DSN 222-2945) or Ms. Annie L. Sellers, Audit Project Manager, at (703) 692-2887 (DSN 222-2887). The distribution of this report is listed in Appendix L.

David K. Steensma

David K. Steensma
Deputy Assistant Inspector General
for Auditing

Office of the Inspector General, DoD

Report No. 94-120 **June 6, 1994**
Project No. 0RD-0043.03

TELECOMMUNICATIONS CIRCUIT ALLOCATION PROGRAMS - JACKSONVILLE AREA

EXECUTIVE SUMMARY

Introduction. This audit was performed as the final segment of our Audit of Telecommunications Circuit Allocation Programs and involved reviews at various DoD and non-DoD organizations in the Jacksonville, Florida, metropolitan area. For this segment of the audit, we evaluated single and multichannel (special-purpose) circuits in the Jacksonville area. The 368 Defense Communications System (DCS) circuits and associated equipment items we evaluated cost about $3.3 million annually, excluding overhead, rate stabilization, and common-user (general-purpose) subscriber charges.

Objectives. The overall objective of the audit was to determine whether DoD circuit allocation programs identified and used the most effective configurations for leased long-haul, special-purpose telecommunications circuits. The specific objectives of this segment of the audit were to determine whether the most cost-effective circuit configurations were used and whether existing leased telecommunications services were discontinued when no longer required.

Audit Results. For the DCS single and multichannel special-purpose circuits, reconfiguration opportunities were not effectively identified and requirements were not adequately revalidated. Of the 166 sampled circuits, 74 were not cost-effective and 31 were not required. In addition, 28 circuits, not included in our audit universe or sample, could be reconfigured or discontinued.

Internal Controls. The internal control program as it applies to circuit allocation programs is the responsibility of the communications commands within the Military Departments, Defense agencies, and the Defense Information Systems Agency. This audit was performed at the installation and activity level. Therefore, internal controls were not assessed during this audit.

Potential Benefits of Audit. Reconfiguration and termination solutions could reduce the cost of the 368 DCS circuits by a projected $1.5 million annually (plus or minus 16.6 percent at a 90-percent confidence level). For FY 1994 through FY 1999, we determined that reconfiguration or termination opportunities in the Jacksonville area could reduce costs by $9.6 million. Finally, for that same period, costs could be reduced by $1.5 million if 28 circuits that were not part of our audit universe or sample are reconfigured or terminated. The actual benefits realized will vary from the amounts cited because benefits will be based on management actions and current usage for the circuits cited. Appendix J describes the potential benefits resulting from the audit.

Summary of Recommendations. We recommended that the appropriate users initiate Requests for Service to reconfigure or disconnect telecommunications circuits identified for reconfiguration or termination. Recommendation 1.a. in the draft report to determine the technical feasibility of reconfigurations has been deleted in the final

report, since our evaluation determined technical feasibility and net cost avoidances for the circuits listed in Appendixes C and E. Also, Recommendation 1.b. in the draft report was incorporated into final report Recommendation 1.

Management Comments.

o The Department of the Army nonconcurred with the finding and recommendations that two sample circuits be either reconfigured or terminated, but did not comment on the monetary benefits.

o The Department of the Navy concurred with the finding and recommendations, but did not comment on the monetary benefits. The Navy comments show that 35 of the 62 sample circuits recommended for reconfiguration, 23 of the 26 sample circuits recommended for termination, and 13 of the 14 non-sample circuits recommended for termination have been terminated. The Navy did not comment on the remaining sample and non-sample circuits recommended for reconfiguration or termination.

o The Department of the Air Force neither concurred nor nonconcurred with the finding or recommendations and did not comment on the monetary benefits. The comments state that four of nine sample circuits recommended for reconfiguration, both sample circuits recommended for termination, and all nine non-sample circuits recommended for termination have been either reconfigured or terminated. The Air Force did not comment on the remaining sample and non-sample circuits.

o The Defense Information Systems Agency did not comment on the finding or recommendations.

o The Defense Logistics Agency partially concurred to terminate circuits, but did not comment on the monetary benefits. The comments state that two of the three sample circuits recommended for termination have been terminated.

o The Defense Mapping Agency concurred in the finding and recommendation to reconfigure circuits, but did not comment on the monetary benefits. The comments state that both sample circuits recommended for reconfiguration have been terminated.

Because of the changes in responsibilities discussed in the transmittal memorandum, we have redirected the recommendations. Therefore, the Defense Information Systems Agency is requested to review the circuits identified in the report for reconfiguration and associated net cost savings and provide the results of its review only for those circuits determined not technically feasible to reconfigure. The Navy, the Air Force and the Defense Logistics Agency are requested to review the circuits identified in the report for termination. Managements' comments are fully discussed in Part II, and the complete texts of managements' comments are in Part IV of this report. We request that the addressees, except for the Department of the Army and the Defense Mapping Agency, provide comments by August 5, 1994.

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Part I - Introduction

Background

The Defense Communications System (DCS) is a worldwide composite of DoD-owned and leased telecommunications subsystems and networks composed of facilities, personnel, services, and equipment under the management and operational direction of the Defense Information Systems Agency (DISA). The DCS provides long-haul, common-user or backbone (general-purpose), and dedicated or point-to-point (special-purpose) telecommunications services for the DoD and other Government organizations. The leased services consist of general-purpose networks[1], such as the Defense Information Systems Network (to be initially composed of the Defense Switched Network [DSN], the Defense Data Network [DDN], and Military Department subnetworks); the Federal Telephone System (FTS) 2000; and special-purpose circuits, trunks, and networks. The DCS does not include communications facilities organic to military forces; tactical telecommunications; base communications (communications within the confines of a post, camp, base, and station, including local interconnect trunks to the first commercial central office providing service in the local area); or on-site facilities associated with or integral to weapon systems.

Requirements for telecommunications services are determined through organizations, such as the headquarters of the Military Departments and Defense agencies, major commands, communications management offices, and installation-level organizations. The DISA operates the Communications Information Services Activity (CISA) (formerly the Communications Services Industrial Fund) to procure authorized commercial communications services, facilities, and equipment for the DoD and other Government agencies. This procurement function is carried out by the Defense Commercial Communications Office (DECCO), which is the operating arm of the CISA and a subelement of the DISA Acquisition Management Organization. The DECCO issues Communications Service Authorizations (CSAs) as part of the procurement process to obtain telecommunications services.

CSAs are service contracts normally placed against basic ordering agreements established by DECCO with various communications vendors. CSAs are authorized by the Telecommunications Management and Services Office (TMSO) through Telecommunications Service Orders. The TMSO is also a subelement of the DISA Acquisition Management Organization. A Telecommunications Service Order is based on a Telecommunications Service Request that a DoD Component submits to the TMSO through its Telecommunications Certification Office (TCO). Each Telecommunications Service Request is based on a Request for Service (RFS) that a communications manager or user activity official (such as a local commander, a major command's communications manager, or a network's communications manager)

[1]A glossary in Appendix A defines communications terms used in this report.

submits to the responsible TCO. To connect new service or to reconfigure, reroute (rehome), or disconnect existing service, a communications manager or user activity official must prepare an RFS.

Within the Continental United States, the certification functions for the Departments of the Army, Navy, and Air Force are performed by elements of the U.S. Army Information Systems Command (U.S. Army Commercial Communications Office, [Army TCO]), the Naval Computer and Telecommunications Command (Navy TCO), and the Air Force Command, Control, Communications and Computer Agency[2] (Air Force TCO), respectively.[3] Defense agencies are authorized to have their own internal certification function. The certification officials review each RFS, prepare the subsequent Telecommunications Service Request, and certify that each RFS is valid, approved, and funded.

The TMSO maintains the Worldwide On-Line System (WWOLS), a DCS data base composed of an inventory of existing circuits and trunks, and assigns a Command Communications Service Designator (CCSD) to each circuit and trunk in the WWOLS. The CCSDs identify circuits and trunks leased and owned by the DoD. DECCO maintains a data base[4] that is used to record communications vendors' billings and the resulting payments, and in turn, the charges to DoD customers for communications services and resulting payments.

Objectives

This audit was performed as the third and final segment of Project No. 0RD-0043, "Audit of Telecommunications Circuit Allocation Programs." The other segments of the audit were performed in the San Antonio, Texas, and the Kansas City, Missouri, metropolitan areas. The overall objective of the audit was to determine whether DoD circuit allocation programs identified and used the most effective configurations for leased long-haul, special-purpose telecommunications circuits. Specifically, the audit determined whether the most cost-effective circuit configurations were used and whether existing leased telecommunications services were discontinued when no longer required.

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[2]Formerly the Air Force Communications Command.

[3]Subsequent to our audit field work, the Assistant Secretary of Defense (Command, Control, Communications and Intelligence) directed in a memorandum dated March 23, 1994, that the TCO certification functions be transferred to DISA by October 1, 1994.

[4]Subsequent to our audit field work, the WWOLS and DECCO data bases, along with other information, were combined to form the Defense Information Services Database System.

Scope and Methodology

Reviews were conducted at seven DoD and non-DoD organizations in the Jacksonville, Florida, metropolitan area. Our universe was composed of 368 CCSDs in the WWOLS data base for DCS single and multichannel special-purpose circuits. The universe and sample did not include Automatic Voice Network (AUTOVON) access circuits. The cutoff date of the universe data was December 1, 1990. General-purpose circuits were excluded from the universe. The special-purpose circuits cost the Government $3.3 million annually. Those costs were exclusive of overhead, rate stabilization, and general-purpose subscriber charges. From the 368 CCSDs, we randomly selected a statistical sample of 166 CCSDs that cost $1.5 million annually. We did not assess the reliability of computer-processed data obtained from the WWOLS and the DECCO data bases that were used in the audit. Any inaccuracies in those data bases will not affect the results of the audit or the recommendations.

In draft reports on the two previous segments of this audit concerning the San Antonio, Texas and the Kansas City, Missouri, metropolitan areas, we provided candidate circuits for reconfiguration to the Military Department and Defense agency communications managers to allow them to evaluate the candidate circuits and develop or propose more cost-effective solutions. However, management comments were not fully responsive to those two draft reports. Therefore, we revised our evaluations and the presentation of our audit results in the draft of this report. We performed more extensive evaluations (from November 1991 through August 1992) to determine the technical feasibility and associated net cost savings for circuits recommended for reconfiguration so that complete and comprehensive solutions are presented. This final report discusses those candidate circuits.

This economy and efficiency audit was made from April 1991 through August 1992. The audit was made in accordance with auditing standards issued by the Comptroller General of the United States as implemented by the Inspector General, DoD. We reviewed current and historical records as they related to the audit cutoff date, December 1, 1990. A list of organizations visited or contacted is in Appendix K.

Internal Controls

The internal control program, as it applies to circuit allocation programs, is defined by DoD Directive 5010.38, "Internal Management Control Program," April 14, 1987, and is the responsibility of the communications commands within the Military Departments, Defense agencies, and DISA. Since the responsibility for internal controls for circuit allocation programs is not vested with the installation or activity communications management function, we did not assess internal controls.

Prior Audits and Other Reviews

Eight prior audit reports by the Inspector General, DoD, showed that similar problems occurred regarding uneconomical leases of telecommunications services and equipment and services and equipment no longer required. Those audits are discussed in Appendix B.

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Part II - Finding and Recommendations

Reconfiguration and Termination of Special-Purpose Circuits

Government organizations in the Jacksonville area are paying for special-purpose circuits and equipment items that are either not cost-effective or no longer required. The Departments of the Army, Navy, and Air Force, the Defense Logistics Agency, and the Defense Mapping Agency did not effectively identify reconfiguration opportunities and did not adequately revalidate requirements for 368 CCSDs representing telecommunications circuits and equipment items, costing about $3.3 million annually, that were leased or owned by DoD organizations in the Jacksonville area. Of the 166 sampled circuits, 74 (44.6 percent) were not cost-effective and 31 (18.7 percent) were not required. During the execution of the FY 1994 through FY 1999 Future Years Defense Program, about $9.6 million could be put to better use if those 105 circuits are either reconfigured or terminated. Finally, for that same period, about $1.5 million could be put to better use if 28 circuits that were not part of our audit universe or sample are reconfigured or terminated.

Background

Reconfiguration Guidance. In March 1973, the function of centralized management and engineering for all DoD nontactical, off-base multiplexing was assigned to the DISA by the Deputy Secretary of Defense. The assignment of that responsibility was incorporated in DoD Directive 5105.19, "Defense Communications Agency (DCA)," August 10, 1978. However, that Directive has since been revised, and the current Directive, "Defense Information Systems Agency (DISA)," June 25, 1991, does not clearly define the responsibility for multiplexing within the DoD. Further, Office of the Inspector General, DoD, Inspection Report No. 91-INS-08, "Defense Communications Agency," May 10, 1991, indicated the lack of clearly defined responsibility and states: "There is no single DCA organization executing the responsibility for circuit allocation, related circuit and trunk transmission engineering, and data base services (i.e., maintenance of the World-Wide On-Line System [WWOLS])." In December 1991, DoD guidance concerning circuit configuration management required the transfer of that responsibility by the DISA.

DoD Instruction 4640.14, "Base and Long-Haul Telecommunications Equipment and Services," December 6, 1991, provided some clarification on responsibility for the reconfiguration of circuits. The Instruction requires that the DISA shall manage and acquire long-haul telecommunications equipment and services for the DoD and that this responsibility includes determining which component (the common-user systems such as DDN or DSN) of the DCS, or contract (FTS 2000 or new acquisition) will satisfy the DoD Components long-haul telecommunications requirements. The Instruction further requires

that the DISA shall work with the DoD Components in planning for the most effective and economical long-haul telecommunications equipment and service acquisitions for the DoD. The Instruction also states that the DISA and the DoD Components shall ensure that the optimal mix of long-haul telecommunications equipment and services is installed to support mission requirements and that traffic studies, configuration analysis, and engineering shall be conducted for each DoD base, post, camp, station, and installation at least every 2 years.

Defense Management Report Decision No. 918 (Decision 918), "Defense Information Infrastructure," September 15, 1992, redirected additional tasks and functions in the communications area from the Military Departments to the DISA. Decision 918 states that the information structure supporting the Defense mission must provide Department-wide, end-to-end information support capability that encompasses collection, generation, storage, display, and dissemination of information. Under Decision 918, the DISA became the central manager of the Defense information infrastructure, and that role includes network management, engineering, design, and control of long-haul and regional communications, as well as technical management of base-level communications.

Termination Guidance. Guidance on telecommunications services that are no longer required is in DoD Directive 4640.13, "Management of Base and Long-Haul Telecommunications Equipment and Services," December 5, 1991. The Directive states that the DoD Components shall discontinue telecommunications equipment or services for which a bona fide need no longer exists.

Verifying Communications Requirements and Configurations

To accomplish our audit objective, we took extensive steps to verify the communications requirements and configurations for the sample circuits. We reviewed current and historical records addressing the established configuration and requirements justifications, and we examined the physical locations for each of the sample CCSDs. We contacted all organizations within the Military Departments, Defense agencies, and DISA identified to us as having knowledge about the usage or requirement and configuration of a circuit. The contacts helped us to determine whether the requirement for the circuit was valid and to identify reconfiguration opportunities. We applied the following three criteria in determining whether the telecommunications services and configurations were justified.

o A need to communicate must have existed on December 1, 1990, the cutoff date of our audit universe.

o If a need to communicate existed, the sample circuit must have been configured in the most cost-effective manner.

o The user must have been able to physically locate the sample circuit.

If a sample circuit failed to meet any one of those criteria, we concluded that a valid requirement no longer existed for the circuit in its established configuration.

Circuit Reconfigurations and Disconnections

Reconfiguration Techniques. Reconfiguration techniques could include rehoming of circuits, dial-up service, and the use of general-purpose networks. Rehoming of circuits involves the diversion of a transmission medium from one switch or node to another switch or node. Normally, this diversion is made to the nearest location, and the result is either a more cost-effective leased circuit or the disconnection of a leased circuit and the use of a Government-owned transmission medium. Dial-up service is a temporary connection, via the public telephone network and normally precludes the need for a leased circuit. Utilization of general-purpose networks (such as the DSN, the DDN, or the FTS 2000) negates the need for a special-purpose leased circuit. The use of reconfiguration techniques has proved to be a source of significant savings and budgetary reductions for the DoD.

Multiplexing is another reconfiguration technique and consists of combining two or more independent circuits (for example, voice, data, or video) into a composite signal through the use of equipment, such as a multiplexer or a sophisticated modem. The signal is then sent via the transmission medium to similar multiplexing equipment at the receiving end, where the process is reversed, restoring the circuits to their original state. This technique includes various combinations of single-channel circuits, multichannel circuits with idle capacity, or fully utilized multichannel circuits that can be consolidated into even larger multichannel circuits. It is more economical to use multiplexing techniques when the cost of leasing a number of independent circuits exceeds the cost of acquiring a multiplex system. With the advent of competition in telecommunications services due to the divestiture of the AT&T, multiplexing has become a very cost-effective technique in the management of special-purpose telecommunications services.

Reconfigurations. The potential exists for significant cost avoidances through the use of reconfiguration techniques. The circuits identified as candidates for potential reconfiguration in this audit should be reviewed by DoD communications managers to determine the technical feasibility of reconfigurations and the associated cost avoidances. From our sample of 166 circuits, we identified 74 (44.6 percent) circuits, leased at a cost of $773,064 annually as candidates for potential reconfiguration. If technically feasible, reconfiguration actions could avoid costs of $560,940 annually or 72.6 percent of the annual leased costs of the 74 sampled circuits and associated equipment items. Results of our analyses of various technical solutions and associated cost avoidances for the circuits in our sample are shown in Appendix C.

Our sampled circuits were identified as candidates for reconfiguration if the circuits were not cost-effective in their established configurations. The specific technical feasibility and associated cost avoidances of reconfiguration solutions, however, need to be determined by DoD communications managers. Communications managers may be able to identify and should seek more viable technical and cost-effective solutions than our proposed options. Technical solutions that need to be considered in achieving cost-effective configurations include: multiplexing, rehoming special-purpose circuits to a general-purpose network, rehoming special-purpose access circuits within both general-purpose and special-purpose networks, establishing dial-up service, and purchasing leased communications equipment.

Multiplexing. Fifty-two circuits, leased at a cost of $422,508 annually, could be reconfigured by establishing new multichannel trunks for 35 circuits or by routing 17 circuits onto an existing network through multiplexing techniques. Reconfiguration of the 52 sample circuits could avoid costs of $270,528 annually. The details on reconfiguration solutions are shown in Appendix C, Category 1, Tables 1. through 9. and Category 2, Tables 1. through 5.

Rehoming Special-Purpose Circuits to a General-Purpose Network. Twelve circuits, leased at a cost of $216,348 annually, were acquired as special-purpose circuits, although the services could be provided by a general-purpose network. Rehoming the 12 sample circuits to a general-purpose network could avoid costs of $189,048 annually. The details on rehoming those circuits are shown in Appendix C, Category 3, Tables 1. through 3.

Rehoming Special-Purpose Access Circuits Within a General-Purpose Network. We identified four DDN access circuits, leased at a cost of $51,156 annually, that were not connected to the nearest DDN node. Rehoming the four sample circuits to the nearest node could avoid costs of $33,096 annually. The details on rehoming those circuits are shown in Appendix C, Category 4, Table 1.

Rehoming a Special-Purpose Access Circuit Within a Special-Purpose Network. We identified one access circuit, leased at a cost of $25,680 annually, that was not connected to the nearest gateway on a special-purpose network. Rehoming that sample circuit to the nearest special-purpose network gateway could avoid costs of $25,656 annually. The details on rehoming that circuit are shown in Appendix C, Category 4, Table 2.

Establishing Dial-Up Service. Four special-purpose circuits, leased at a cost of $47,292 annually, did not have sufficient utilization (traffic volume) to justify dedicated service. An analysis of the traffic associated with those circuits indicated that establishing dial-up service for only the transmission time needed would satisfy the communication requirement. Establishing dial-up service and disconnecting the four special-purpose sample circuits could avoid costs of $32,556 annually. The details on dial-up service for those circuits are shown in Appendix C, Category 5.

Purchasing Leased Communications Equipment. One circuit with two modems was leased at a cost of $10,080 annually. Purchase of the modems would be considerably more cost-effective. The modems and associated maintenance could have been obtained through the Codex Bulk Modem Purchase contract maintained by the DECCO. Purchasing the two leased modems could avoid costs of $10,056 annually. The details on purchasing the equipment are shown in Appendix C, Category 6.

Disconnections. Thirty-one circuits and associated equipment items, leased at a cost of $130,668 annually, were no longer required. The 31 circuits represent 18.7 percent of the audit sample reviewed and were being paid for by the Navy (26 circuits), Air Force (2 circuits), and Defense Logistics Agency (3 circuits). Sampled items were identified as candidates for disconnection if the need to communicate using the existing service, as of the cutoff date of our audit universe, was no longer required. Requests for Service or Telecommunications Service Requests, as appropriate, should be initiated through designated channels to terminate both the physical connection of the circuit and the payment to the vendor. Disconnecting those 31 circuits could avoid costs of $130,668 annually. Details on the circuits that are candidates for disconnection are shown in Appendix D.

Using statistical sampling techniques, we determined that reconfiguration and termination solutions could reduce the cost of the 368 DCS circuits by a projected $1,533,202 million annually (plus or minus 16.6 percent or plus or minus $254,509 at a 90-percent confidence level). Our method was to add the potential annual cost avoidances for reconfigurations (after first allocating the potential annual cost avoidances to the circuits proportionately to their original costs) identified in Appendix C to the potential annual cost avoidances for terminations identified in Appendix D.

Non-Sample Circuits. Our audit work in the Jacksonville area showed that 23 circuits, leased at an annual cost of $232,632 were no longer required. The 23 circuits were not a part of our audit universe or sample and were used by the Navy (14 circuits) and the Air Force (9 circuits). Disconnecting the 23 circuits could avoid annual costs of $232,632. Non-sample items were identified as candidates for termination if the need to communicate using the existing service was no longer required. In addition, we determined that multiplexing four locally-leased data circuits (see Appendix C, Category 1., Table 3.) could avoid annual costs of $4,260 (see Appendix C, Category 1., Table 3., Footnote 11) or 100-percent of the leased costs of those circuits and that rehoming one access circuit within a general-purpose network could avoid annual costs of $3,648 (see Appendix E) or 43.5 percent of the leased cost of that circuit.

Reconfiguration and termination of the 28 non-sample circuits could avoid expenditures of $1,528,828 during the execution of the FY 1994 through FY 1999 Future Years Defense Program. An RFS or Telecommunications Service Request, as appropriate, should be initiated through designated channels to reconfigure or to terminate both the physical connection of the circuits and

the payments to the vendor. Potential cost avoidances that may be obtained by reconfiguring or disconnecting the non-sample circuits are shown in Appendixes E and F, respectively.

A summary of all sample and non-sample circuits recommended for reconfiguration and termination is in Appendix G. The projected cost avoidances that may be obtained for the Future Years Defense Program are shown in Appendix H for the sampled circuits and in Appendix I for the non-sample circuits. Appendix J shows the summary of all potential monetary benefits ($11,154,012) resulting from the audit.

Recommendations for Corrective Action

1. We recommend that the Director, Defense Information Systems Agency, take appropriate action to reconfigure circuits listed in Appendixes C and E.

Changes to Recommendations for the Final Report. After completion of the audit field work, responsibilities for determining technical solutions and performing configuration management for DCS telecommunications circuits were transferred within the DoD, as described in the Background section in Part II. Our position is that the recommendation, if implemented, offers opportunities for substantial communications cost avoidances. We maintain that the DISA is in the best position to take appropriate action whether that action is directing the Military Department and Defense agency communication managers to reconfigure the circuits or instructing DISA communications managers to reconfigure those circuits on behalf of the DoD Components. Further, we maintain that the Director of Information Systems for Command, Control, Communications and Computers, Department of the Army; the Director, Space and Electronic Warfare, Department of the Navy; and the Deputy Chief of Staff, Command, Control, Communications and Computers, Department of the Air Force, are in the best position to take appropriate action to terminate circuits in their respective Military Departments. Therefore, the recommendations in this final audit report have been redirected accordingly. Also, Recommendation 1.a. in the draft report has been deleted in the final report since our evaluation determined technical feasibility and net cost avoidances for the circuits listed in Appendixes C and E. Further, Recommendation 1.b. in the draft report was incorporated into Recommendation 1., and Recommendation 2. in the draft report was redirected to a higher level.

Department of the Army Comments. The Army nonconcurred with the finding and recommendations. The Army stated that circuit URED 7C1D was one of the termination points on a Developmental Army Readiness Mobilization Systems multipoint circuit that used a WECO Dataphone II, Level II diagnostics monitoring and control system from the host computer. The Army further stated that a dial-up connection would not have technically satisfied the requirement. Also, the Developmental Army Readiness Mobilization System

has since been changed to a Codex diagnostic monitoring system, which has the ability to monitor dial-up connections. The Army disconnected the circuit February 19, 1993, under the Army's 1992 Review and Revalidation. The complete text of the Army's comments is in Part IV of this report.

Audit Response. We do not agree with the Army's position on this circuit. Circuit URED 7C1D was identified by communications managers at the Florida Army National Guard as a candidate for a dial-up connection. Communications managers at the Florida Army National Guard indicated that on average, they used the circuit 8 hours per month and believed that satisfying the requirement via dial-up service would be more cost-effective for their command. Further, during July 1990 and before the audit cutoff date, the WECO Dataphone II modems used for this circuit were replaced with modems (purchased through the DECCO Codex Bulk Modem contract) that had monitoring and dial-up capability. Therefore, at the time of the audit, circuit URED 7C1D was already configured to perform in a dial-up mode and should have been reconfigured to a dial-up connection when the WECO Dataphone II modems were replaced. No further action is required for this circuit since it has been disconnected; however, we ask that the Army reconsider its position on the recommended reconfiguration as of the cutoff date of the audit universe.

Department of the Navy Comments. The Navy concurred with the findings and recommendations and further stated that since the audit, the Navy has terminated 65 percent (117 of 180) of the circuits on which action is recommended. The Navy stated most of the remaining actions have either been reawarded or are programmed for reconfiguration on the Defense Information Systems Network. The complete text of the Navy's comments is in Part IV of this report.

Audit Response. We consider the Navy's comments partially responsive. The Navy comments referred to the number of CSA's on which they had taken action to terminate rather than the number of circuits. However, the CCSD's representing the circuits discussed in the draft of this report often have multiple CSA's representing the leases for services and equipment. Therefore, Navy's comments show that 35 of the 62 sampled circuits recommended for reconfiguration were subsequently terminated. The Navy did not provide comments on 27 sample circuits and on 4 non-sample local data circuits recommended for reconfiguration. The Navy stated that it would provide specific actions on the remaining circuits when the final report is issued. No further actions are required for those circuits that have been terminated; however, we ask that the Navy provide comments on the remaining circuits recommended for reconfiguration as of the cutoff date of the audit universe.

Department of the Air Force Comments. The Air Force neither concurred nor nonconcurred with the finding or recommendations. The Air Force stated that since the audit cutoff date of December 1, 1990, much progress has been made in correcting deficiencies in the provisioning and implementation of long-haul telecommunications services. Also, the Air Force implemented the Air Force Integrated Telecommunications Network program, which corrected numerous shortfalls identified by this and previous long-haul telecommunications audits. Management actions have corrected deficiencies

and internal controls have been improved (for example, the Review and Revalidation process), but potential monetary benefits listed in the draft report do not take into account the fact that the FY 1994 Review and Revalidation process would have identified unnecessary circuits or that a plan has been initiated to bundle circuits onto the Defense Information Systems Network. The Air Force stated that potential monetary benefits for FY 1995 and beyond should be deleted because circuits no longer required would be identified under the Review and Revalidation process for termination during FY 1994. Further, circuits for reconfiguration would be identified by DISA by October 1, 1994, based on guidelines of the Joint Staffs' Defense Information Systems Network Acceleration Plan. Additionally, the Air Force stated that Program Element 33126F cited in the draft report for cost avoidances is the Air Force's common-user program element and the dedicated circuit cost avoidances would be reflected in the dedicated program elements used by the requiring organization. Of the nine sample circuits identified for reconfiguration, the Air Force identified two circuits for reconfiguration and two circuits for termination.

Audit Response. We consider the Air Force's comments partially responsive. The Air Force did not comment on the remaining five sample circuits or the one non-sample circuit identified for reconfiguration. We do not accept the Air Force position that the circuits recommended for reconfiguration would be identified by DISA by October 1, 1994, based on guidelines of the Joint Staff's Defense Information Systems Network Acceleration Plan. The Air Force did not provide documentation to support that position. The audit identified specific circuits for reconfiguration solutions, none of which had been identified by communications managers for reconfiguration as of the audit cutoff date. If prompt action had been taken by Air Force communications managers to reconfigure those circuits, as was requested during the audit, funding for those circuits would have been reduced from the Air Force budget, and cost avoidances would have been accomplished and would continue to be accomplished. If the audit had not brought those circuits to the Air Force's attention, we believe that the costs would have remained. The Air Force comments suggest that an event that had not taken place at the time of the audit (the Defense Information Systems Network Acceleration Plan) would provide more assurance that cost avoidances will be identified than the actual results of the completed audit work. Further, implementation of that plan does not decrease the costs that could have been avoided as a result of recommended actions. This audit and prior audits (see Appendix B) have shown that communications managers frequently do not identify reconfiguration opportunities. At the three metropolitan areas reviewed during the overall audit of "Telecommunications Circuit Allocation Programs," results showed that more than 42 percent of the 451 sample circuits were not cost-effective in their configurations. Therefore, we believe that the cost avoidances identified in this report are valid. Finally, according to the DoD Handbook, DoD 7045.7-H, "FYDP Program Structure," April 1992, Program Element 0303126 "Long-Haul Communications (DCS)" includes:

> . . . manpower authorizations, peculiar and support equipment, necessary facilities and the associated costs specifically identified and measurable to the following:
>
> All long-haul, point-to-point, leased and Government-owned communications facilities, material, and associated manpower and costs identifiable and measurable to the DCS.

Therefore, we believe that the amount of monetary benefits is correct. No further actions are required for those circuits that have been subsequently reconfigured or terminated; however, we ask that the Air Force provide comments on the remaining circuits recommended for reconfiguration as of the cutoff date of the audit universe and reconsider its position in response to this final report.

Defense Information Systems Agency Comments. The DISA reviewed the subject draft report and determined that the issues presented do not require comment. The complete text of DISA's comments is in Part IV of this report

Audit Response. Due to the changes to Recommendation 1., we ask that DISA respond to the final report.

Defense Mapping Agency Comments. The Defense Mapping Agency concurred with the finding and recommendation and stated that the requirement for the two full-time circuits identified in the draft report was canceled in December 1993. The complete text of the Defense Mapping Agency's comments is in Part IV of this report.

Audit Response. No further actions are required for those circuits that have been terminated.

2. We recommend that the Director, Space and Electronic Warfare, Department of the Navy; the Deputy Chief of Staff, Command, Control, Communications, and Computers, Department of the Air Force; and the Director, Defense Logistics Agency, require the appropriate user organizations to initiate Requests for Service to disconnect their respective circuits listed in Appendixes D and F.

Department of the Army Comments. The Army nonconcurred with the recommendation and stated that circuit UA09 765H was a DDN requirement that was never provided. The circuit was canceled on December 17, 1990.

Audit Response. We agree with the Army's position on this circuit. The Army initiated action to disconnect circuit UA09 765H before the established cutoff date of this audit. Therefore, we have deleted that circuit from this final report. No further action is required for this circuit.

Department of the Navy Comments. The Navy concurred with 23 of the 26 sample circuits and with 13 of the 14 non-sample circuits recommended for termination.

Audit Response. The Navy did not provide comments on three of the sample circuits and on one non-sample circuit recommended for termination. The Navy stated that it would provide specific actions on the remaining circuits when the final report is issued. No further actions are required for those circuits that have been terminated; however, we ask that the Navy provide comments on the remaining circuits recommended for termination as of the cutoff date of the audit.

Department of the Air Force Comments. The Air Force initiated actions to disconnect the two sample circuits and the nine non-sample circuits identified by the audit for termination.

Audit Response. We do not accept the Air Force position that the Review and Revalidation process would have identified all unnecessary circuits for termination. The Air Force did not provide documentation to support its position. The audit identified specific circuits for termination, none of which had been identified by a Review and Revalidation process as of the cutoff date of the audit. If prompt action had been taken by Air Force communications managers to terminate those circuits, as requested during the audit, funding for those circuits would have been reduced from the Air Force budget and cost avoidances would have been accomplished and would continue to be accomplished. Although the Air Force conducts a biennial Review and Revalidation, that process does not decrease the amount of costs that could have been avoided as a result of recommended actions. If the audit had not brought those circuits to the Air Force's attention, we believe that the cost would have remained. Further, the Air Force suggests that an event that had not taken place at the time of the audit (the FY 1994 Review and Revalidation process) would provide more assurance that cost avoidances will be identified than the actual results of the completed audit work. This audit and prior audits (see Appendix B) have shown that the: review and revalidation process does not always identify all circuits requiring revalidation; communications managers do not always adequately revalidate the requirements of circuits that are identified or do not always respond to the process; communication commands do not always adequately review the revalidation responses returned to them or do not follow up when responses are not received; and for those circuits identified for termination, payments may continue for as long as 2 years between the scheduled biennial reviews or may continue for even longer periods.

At the three metropolitan areas reviewed during the overall audit of "Telecommunications Circuit Allocation Programs," results showed that more than 14 percent of the 451 sample circuits were no longer required. In addition, the audit identified 45 circuits that were not part of the audit samples and that were no longer required. On subsequent audits of the "Disposition of Telecommunications Services and Equipment" at Pease and Eaker Air Force Bases, results showed that more than 19 percent of the 62 sample circuits were no longer required. We contend that the biennial Review and Revalidation process would not provide assurance that any or all of the specific circuits in our report would have been identified for termination or that billings and payments would stop. Therefore, we believe that the cost avoidances identified in this report are valid. No further action on the circuits is required; however, we ask that the Air Force reconsider its position in response to this final report.

Defense Logistics Agency Comments. The Defense Logistics Agency partially concurred with the recommendation, stating that some, not all, of the circuits that were identified by the audit were unnecessary. The Defense Contract Management District South, Atlanta, Georgia, reviewed and revalidated circuit NSUV 7A8Y as a valid requirement. Also, an RFS was submitted to DISA for circuit NSUD 7DS7 to disconnect service in its entirety, but the circuit could not be disconnected until a valid alternative via the Defense Information Systems Network was finalized. Finally, circuit NSUV 7FEF was disconnected May 11, 1993. The complete text of the Defense Logistics Agency's comments is in Part IV of this report.

Audit Response. We consider the Defense Logistics Agency's comments partially responsive. The Defense Logistics Agency did not provide documentation to support the retention of the two circuits in service. The audit showed that circuit NSUV 7A8Y was one of two off-premise circuits established to provide AUTOVON and Orlando, Florida, local telephone service for the Defense Contract Management Office, Grumman, St. Augustine, Florida, at a monthly cost of $734 ($8,808 annually). We reviewed the Call Detail Report to determine whether the usage justified the two dedicated circuits. According to the Call Detail Report, the average daily usage for both circuits equaled 1,671 minutes or about 28 hours per month, and the average daily usage equaled about 76 minutes per day. Accordingly, the recorded usage does not warrant those two dedicated circuits. Based on a lease for service 30 days a month, 24 hours a day, the average utilization of each circuit averaged 1.9 percent of the available time during the lease period. That utilization rate does not justify the retention of two dedicated circuits; therefore, based on the usage data, we recommended that one circuit be disconnected (NSUV 7A8Y since it was used the least amount of time). We agree with the action to disconnect circuit NSUD 7DS7 in its entirety. We do not agree that a cost-effective alternative via the Defense Information Systems Network was needed, since the draft report concluded that a valid requirement to communicate using circuit NSUD 7DS7 no longer existed. During the audit field work in May 1991, we recommended that the St. Augustine portion of the circuit be disconnected. An RFS submitted by the Defense Contract Management Office, Grumman, on June 27, 1991 requesting that the Defense Contract Management Office, Grumman, portion of the circuit be disconnected because it was no longer used. Funds totaling about $13,000 were spend because action to disconnect the circuit was not taken until March 1994. No further action on circuits NSUV 7DS7 and NSUV 7FEF is required; however, we ask that the Defense Logistics Agency reconsider its position to terminate circuit NSUV 7A8Y in response to this final report.

Part III - Additional Information

Appendix A. Glossary

Access Line	A circuit connecting a subscriber directly to a switching center or to a node in a switched network.
Allocation	The process of selecting and designating specific channels and trunks that will be used in routing a circuit or circuits to satisfy a customer requirement.
AUTOVON	Automatic Voice Network. A general-purpose switched voice network that provides unsecured voice communications services to DoD customers.
Bundle	A term often used to mean multiplexing or to consolidate circuits onto a larger trunk.
CCSD	Command Communications Service Designator. A unique identifier for each single service; that is, single-channel circuits, multichannel trunk circuits, and interswitch trunk circuits.
Channel	A single unidirectional or bidirectional path for transmitting or receiving (or both) electronic signals, usually in a path that is distinct from other parallel paths.
Circuit	A communication capability between two or more users, between a user terminal and a switching terminal, or between two switches.
Concentrator	A telecommunications device that allows a number of circuits (typically slow-speed ones) to be connected to a smaller number of circuits for transmission under the assumption that not all of the larger group of circuits will be used at the same time.
DDN	Defense Data Network. A general-purpose packet switching network that provides direct data transmission communications services to DoD customers.

DSN	Defense Switched Network. A general-purpose network designed to provide switched voice, digital data, and video teleconferencing services to DoD customers.
FTS 2000	Federal Telephone System 2000. A general-purpose voice, data, and video network procured and managed by the General Services Administration.
General-Purpose Network	A system of circuits or trunks between network switching centers or nodes allocated to provide communications service on a common basis to all connected subscribers. Sometimes described as a common-user network.
Modem	Modulator/Demodulator. A device that converts digital signals to analog so that they may be transmitted via conventional analog circuits or that converts analog signals to digital so that they may be received by digital terminal equipment or a computer.
Node	A tandem switch that collects data traffic from multiple transmission media and routes the data to other switches or nodes.
Packet Switching	A technique by which digital data are transmitted in packets (composed of a predetermined number of bits) and switched over a logical path, rather than a physical path as in circuit switching.
Rehome	The disconnection of a transmission medium from one switch or node and the reconnection to another switch or node.
Tail Circuit	A circuit that operates from the long-haul vendor's demarcation point.

TCO	Telecommunications Certification Office. An organization designated by a Federal Department or Agency to certify to the Defense Information Systems Agency (DISA) that a specified telecommunications service or facility is a bona fide requirement, and that the Department or Agency is prepared to pay mutually acceptable costs to fulfill the requirement.
Trunk	A dedicated circuit connecting two switching centers, central offices, or data concentration devices. This term is often used within the communications community to describe any multichannel circuit.
Switching Center	A point at which two circuits could be interconnected to make a path between two users.
WWOLS	Worldwide On-Line System. The DISA Telecommunications Management and Services Office maintains this data base inventory of Defense Communications System (DCS) circuits and trunks to reflect Telecommunications Service Requests and Telecommunications Service Orders. The WWOLS contains specific engineering, operational, and management data to support the circuit and trunk allocation and transmission engineering functions performed for DCS telecommunications services.

Appendix B. Prior Audits and Other Reviews

Office of the Inspector General, DoD, Report No. 94-072, "Telecommunications Circuit Allocation Programs - Kansas City Area," March 31, 1994. The audit showed that reconfiguration opportunities were not effectively identified and that requirements were not adequately revalidated. The report showed that 63.1 percent of the 92 sample Command Communications Service Designators (CCSDs) reviewed at DoD organizations in the Kansas City, Missouri, metropolitan area were potentially not cost-effective in their configurations or were no longer required. For the sampled CCSDs, the report identified 33 (35.9 percent) circuits as candidates for potential reconfiguration. Leases for 25 (27.2 percent) other circuits could be terminated because they were no longer required. We determined that $7.9 million could be put to better use if circuits are either reconfigured or terminated in the Kansas City area during the execution of the FY 1994 through FY 1997 Future Years Defense Program. Finally, for that same period, about $1.3 million could be put to better use if 21 circuits that were not part of the audit universe or sample is terminated.

Office of the Inspector General, DoD, Report No. 94-051, "Telecommunications Circuit Allocation Programs - San Antonio Area," March 11, 1994. The audit showed that reconfiguration opportunities were not effectively identified and that requirements were not adequately revalidated. The report showed that 47.6 percent of the 193 sample CCSDs reviewed at DoD organizations in the San Antonio, Texas, metropolitan area were potentially not cost-effective in their configurations or were no longer required. For the sampled CCSDs, the report identified 84 (43.5 percent) circuits as candidates for potential reconfiguration. Leases for eight (4.1 percent) other circuits could be terminated because they were no longer required. We determined that $8.9 million could be put to better use if circuits are either reconfigured or terminated in the San Antonio area during the execution of the FY 1994 through FY 1996 Future Years Defense Program. Finally, for that same period, about $.015 million could be put to better use if one circuit that was not part of the audit universe or sample is terminated.

Office of the Inspector General, DoD, Report No. 93-144, "Management of Leased Modulators/Demodulators by the Air Mobility Command," June 30, 1993. The audit showed that the Air Mobility Command did not prepare documentation required to discontinue payments for modulators/demodulators (modems) no longer in service, purchase rather than lease modems, and disconnect circuits that were no longer required. As a result, about $826,000 was spent for equipment no longer in service; about $1.3 million was spent for leased equipment that should have been purchased; and about $70,000 was spent for leased circuits that were no longer required. The audit also showed that at seven military installations, 53.6 percent of telecommunications equipment could not be accounted for and that the Air Mobility Command could not validate its telecommunications equipment inventories. Action to terminate lease payments, to purchase leased modems, and to disconnect circuits would reduce costs by about $5.3 million (of which

$784,000 was previously reported for Dover Air Force Base [AFB]) during the FY 1993 through FY 1998 Future Years Defense Program. We recommended that the Commander, Air Mobility Command, terminate payments for equipment no longer in service, purchase leased modems, disconnect circuits no longer needed, and conduct and maintain inventories of all leased and owned telecommunications equipment and services. The Air Force concurred with the finding and implemented corrective measures.

Office of the Inspector General, DoD, Report No. 93-021, "Management of Leased Modulators/Demodulators at Dover Air Force Base, Delaware," November 9, 1992. The audit showed that payments continued to be made for telecommunications equipment that was no longer in service and that equipment that should have been purchased continued to be leased. As a result, more than $287,000 had been spent unnecessarily from February 1990 through June 1992. Action to terminate leases and purchase modems would reduce costs by about $784,000 during the FY 1993 through FY 1998 Future Years Defense Program. We recommended that the Commander, Air Mobility Command, terminate leases for six long-haul modems and purchase replacement modems from the Bulk Modem Contract maintained by the Defense Commercial Communications Office (DECCO). The Air Force concurred with the finding and implemented corrective measures.

Office of the Inspector General, DoD, Report No. 93-019, "Disposition of Telecommunications Services and Equipment at Eaker Air Force Base," November 6, 1992. The audit identified telecommunications services that were not discontinued when service requirements no longer existed. The report showed that 5 (10.6 percent) of 47 long-haul telecommunications circuits reviewed at Eaker AFB, Blytheville, Arkansas, were no longer required. As a result, DoD could have avoided communications costs estimated at $19,000 if action had been taken to discontinue the services. When this matter was brought to management's attention, it took immediate action to discontinue the circuits and avoided additional costs of about $9,000 through December 1992, the planned base closure date. The Air Force concurred with the finding and monetary benefits and provided corrective measures to prevent similar conditions.

Office of the Inspector General, DoD, Report No. 93-018, "Disposition of Telecommunications Services and Equipment at Pease Air National Guard Base," November 6, 1992. The audit disclosed that existent services were not discontinued when communication requirements no longer existed. The report showed that 7 (46.7 percent) of 15 long-haul telecommunications circuits reviewed at Pease Air National Guard Base, Portsmouth, New Hampshire, were no longer required. As a result, DoD could have avoided communications costs estimated at $151,000 if action had been taken to discontinue the services. When this matter was brought to management's attention, it took immediate action to discontinue the services and avoided additional costs of about $272,000 during the execution of the FY 1993 through FY 1998 Future Years Defense Program. The Defense Information Systems Agency (DISA) concurred with the finding and monetary benefits projected in the report.

Office of the Inspector General, DoD, Report No. 91-110, "Quick-Reaction Report on the Reconfiguration of Automatic Voice Network Access Circuits - Kansas City Area," July 3, 1991. The audit showed that the DISA neither identified reconfiguration opportunities nor coordinated implementation of reconfiguration solutions when two or more DoD Components were involved. The report showed that less costly reconfiguration opportunities existed, but were not effectively identified or implemented for our universe of 109 CCSDs issued for Automatic Voice Network (AUTOVON) access circuits at 7 DoD organizations in the Kansas City, Missouri, metropolitan area. The report states that 41 (37.6 percent) of the 109 CCSDs reviewed were potentially not cost-effective in their configurations and showed that the 41 circuits were candidates for multiplexing. The reconfigured multiplexed circuits could result in DoD realizing cost avoidances of $658,000 during execution of the FY 1992 through FY 1997 Future Years Defense Program. The report recommended that the DISA initiate immediate action to reconfigure the 41 AUTOVON circuits. DISA agreed that although the recommendation was technically feasible, it was not compliant with the contract or the Defense Commercial Telecommunications Network (DCTN)/AUTOVON merger solution previously proposed by AT&T and agreed to by the Government.

As part of a resolution agreement, the DISA proposed that an audit be performed addressing the AT&T pricing of the DCTN/AUTOVON access lines to assist DISA and DECCO in conducting their annual rate review negotiations with AT&T. The annual rate review is required by the DCTN contract. Although the Assistant Inspector General for Auditing disagreed with DISA's position that it was inappropriate to implement the audit recommendation, both agreed that the audit would be performed to determine that the AT&T prices and approach under the DCTN/AUTOVON merger were adequately supported, cost-effective, and fair. It was also agreed that DISA's support for the audit would be the required action in lieu of implementing the recommendation in Report No. 91-110.

Office of the Inspector General, DoD, Report No. 90-005, "Requirements Validation for Telecommunications Services," October 16, 1989. The audit showed that 21 percent of the 1,323 sample circuits reviewed at 21 DoD installations continued in service although no longer required, were not cost-effective as configured, or could not be identified. For the sampled circuits, the report identified 135 circuits (10.2 percent) that were no longer required, 130 circuits (9.8 percent) that were considered not cost-effective in their configurations, and 12 circuits (1.0 percent) that could not be identified. As a result, leased circuits that are no longer required or not cost-effective may cost DoD as much as $21 million during FY 1989 and $117 million during the execution of the FY 1989 through FY 1993 Five-Year Defense Plan. Several recommendations were made to the Assistant Secretary of Defense (Command, Control, Communications and Intelligence) and to the Comptroller of the Department of Defense, one of which was to establish a definitive policy requiring DoD Components to review and revalidate telecommunications circuits leased and owned by the Defense Communications System. The identification of reconfiguration opportunities was not discussed in that audit report. Management concurred in all recommendations in the report.

Appendix C. Schedule of Circuits Recommended for Reconfiguration

Category 1. Table 1. Establish a New Trunk Through Multiplexing Navy Personnel Data Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7G9W	PERSONNEL DATA CIRCUIT [5]	4.8	JCKSNVLL [6]	MARIETTA [7]	CAWM D 926161 001	$667	$ 8,004
BUEM 7G6W	PERSONNEL DATA CIRCUIT	9.6	JCKSNVLL	MARIETTA	AT D 77894	656	7,872
Current Recurring Costs							$15,876
Recurring Costs of Multiplexing Action:							
Cost of 19.2 Kb/s leased circuit						($790)	($ 9,480) [8]
Modem Maintenance Contracts (2 modems x 1 circuit x $3 = $6 per month)						(2)	(24) [9]
Total Annual Savings Resulting from Multiplexing Action							$ 6,372
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 2,350) [8]
Installation of Maintenance Contract (2 modems x 1 circuit x $63 = $126)							(126) [9]
Freestanding Modems (2 modems x 1 circuit x $763 = $1,526)							(1,526) [9]
Total Savings in the First Year Resulting from Multiplexing Action							$ 2,370

See footnotes on next page.

Category 1. Table 1. Establish a New Trunk Through Multiplexing Navy Personnel Data Circuits

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Data circuit in support of the Navy's Personnel Support Data System (PASS/SDS).
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Navy Personnel Support Detachment, Marietta, Georgia.
8/ Cost estimate obtained at DECCO through the Federal Telephone System 2000 tariff.
9/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 1. Table 2. Establish a New Trunk Through Multiplexing Navy Personnel Support and Financial Management Circuits

(Routed via existing trunk from Jacksonville to Orlando and via new trunk from Orlando to Miami)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7ADH	FINANCIAL DATA CIRCUIT [5]	4.8	JCKSNVLL [6]	HOMESTEAD [7]	SB 52D 859550	$ 57	$ 684
					SB 30D 13558	782	9,384
					SB 58D 859551	48	576
					SB 60D 906140	72	864
					ABI 30Q 13558 SB [8]	2,002	24,024
BUED 7EMC	PERSONNEL DATA CIRCUIT [9]	4.8	JCKSNVLL	HOMESTEAD	MCIT D 565526 028	536	6,432
BUED 7EME	PERSONNEL DATA CIRCUIT	9.6	JCKSNVLL	HOMESTEAD	MCIT D 565526 038	536	6,432
Current Recurring Costs							$ 48,396
Recurring Costs of Multiplexing Action:							
Cost of 19.2 Kb/s leased circuit						($ 770)	($ 9,240) [10]
Modem Maintenance Contracts (2 modems x 1 circuits x $3 = $6 per month)						(6)	(72) [11]
Currently Leased Equipment [8]							(24,024) [8]
Total Annual Savings Resulting from Multiplexing Action							$15,060
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 1,600) [10]
Installation of Maintenance Contract (2 modems x 1 circuits x $63 = $126)							(126) [11]
Freestanding Modems (2 modems x 1 circuit x $1,020 = $2,040)							(2,040) [11]
Total Savings in the First Year Resulting from Multiplexing Action							$11,294

See footnotes on next page.

Category 1. Table 2. Establish a New Trunk Through Multiplexing Navy Personnel Support and Financial Management Circuits

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Data circuit in support of the Integrated Data and Financial Management System (IDAFMS).
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Homestead Air Force Base, Miami, Florida.
8/ Equipment currently leased for this circuit that will not be replaced by reconfiguration action.
9/ Data circuit in support of the Navy's Personnel Support Data System (PASS/SDS).
10/ Cost estimates obtained at DECCO through the Federal Telephone System 2000 tariff.
11/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 1. Table 3. Establish a New Trunk Through Multiplexing Various Navy Circuits to Naval Air Station Cecil Field

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BABA 7BMV	DATA CIRCUIT	75baud [5]	JCKSNVLL [6]	CECILFLD [7]	SB 31T 00028	$ 28	$ 336
BUED 7BHU	DATA CIRCUIT	2.4	JCKSNVLL	CECILFLD	SB 31D 00850	106	1,272
					ABI 31Q 00850 SB	357	4,284
BWXD 7KQ3	LDATS DATA CIRCUIT [8]	1.2	JCKSNVLL	CECILFLD	SB 31D 306579	58	696
BUED 7CS2 [9]	DATA CIRCUIT	2.4	HILLIARD [10]	CECILFLD			
#110188 [11]	LOCAL DATA CIRCUIT	2.4	JCKSNVLL	CECILFLD		(130)	0 [12]
#303165 [11]	LOCAL DATA CIRCUIT	2.4	JCKSNVLL	CECILFLD		(86)	0 [12]
#303166 [11]	LOCAL DATA CIRCUIT	4.8	JCKSNVLL	CECILFLD		(84)	0 [12]
#278943 [11]	LOCAL DATA CIRCUIT	2.4	JCKSNVLL	CECILFLD		(55)	0 [12]
Current Recurring Costs (sample circuits only)							$6,588
Recurring Costs of Multiplexing Action:							
Cost of 19.2 Kb/s leased circuit [13]						($ 65)	($ 780) [14]
Modem Maintenance Contracts (2 modems x 1 circuit x $8 = $16 per month)						(16)	(192) [15]
Total Annual Savings Resulting from Multiplexing Action (sample circuits only)							$5,616
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 750) [14]
Freestanding Modems (2 modems x 1 circuit x $2,826 = $5,652)							(5,652) [15]
Total Savings in the First Year Resulting from Multiplexing Action							($ 786)

See footnotes on next page.

Category 1. Table 3. Establish a New Trunk Through Multiplexing Various Navy Circuits to Naval Air Station Cecil Field

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ 75 baud - low-speed data circuit (approximately 0.075 Kb/s).
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Naval Air Station Cecil Field, Jacksonville, Florida.
8/ Data circuit in support of the Lightning Detection and Tracking System (LDATS).
9/ Proposed trunk provides a tail circuit for this 2.4 Kb/s circuit between Naval Air Station Jacksonville and Naval Air Station Cecil Field (see APPENDIX C, Category 1., Table 6. for the Hilliard, Florida, to Jacksonville, Florida, leg of this proposed routing).
10/ Federal Aviation Association Air Route Traffic Control Facility, Hilliard, Florida.
11/ Locally leased data circuits (non-sample circuits) not contracted for nor billed through DECCO (An eight-channel multiplexing modem allows for the inclusion of these four local data circuits on this trunk at an additional cost avoidance of $355 monthly [or $4,260 per year] - see APPENDIX G for additional information on these circuits).
12/ Non-sample circuits - cost avoidances do not apply to the audit universe of circuits (see APPENDIX G for additional information).
13/ Additional capacity is included to allow this trunk to provide routing for other circuits (see footnotes 9/, 11/, 12/, and 15/).
14/ Estimate for the cost of local data transmission service obtained from Naval Computer and Telecommunications Station personnel located at Naval Air Station Jacksonville.
15/ An eight-channel multiplexing modem allows for the inclusion of four local data circuits on this trunk (non-sample circuits, see APPENDIX G for additional information). Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 1. Table 4. Establish a New Trunk Through Multiplexing Navy Radio Access and Weather Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BKLY 7UUP	RADIO ACCESS CIRCUIT[5]	V[6]	JCKSNVLL[7]	CCANAVRL[8]	SP D 65007	$ 372	$ 4,464
BKLY 7UUW	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65005	319	3,828
					SB 52D 202322	54	648
					SB 58D 202325	48	576
BKLY 7UUX	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65006	319	3,828
					SB 52D 202321	54	648
					SB 58D 202326	48	576
BKLY 7UUZ	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65008	319	3,828
					SB 52D 202320	54	648
					SB 58D 202323	48	576
BKLY 7UVA	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65009	319	3,828
					SB 52D 202319	54	648
					SB 58D 202324	81	972
BKLY 7UVB	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65010	319	3,828
					SB 52D 217386	52	624
					SB 58D 217388	48	576
BKLY 7UVD	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65012	319	3,828
					SB 52D 212371	54	648
					SB 58D 212373	48	576
BKLY 7UVE	RADIO ACCESS CIRCUIT	V	JCKSNVLL	CCANAVRL	SB 30D 65013	319	3,828
					SB 52D 428500	16	192
					SB 58D 700378	48	576
BWXD 7KQV	LDATS DATA CIRCUIT[9]	1.2	JCKSNVLL	CCANAVRL	SB D 101833 SB2	51	612
					SB D 101833 SB1	51	612
					SB D 101833	433	5,196
Current Recurring Costs							$46,164

See footnotes on next page.

Category 1. Table 4. Establish a New Trunk Through Multiplexing Navy Radio Access and Weather Circuits

CCSD 2/	Description	Kb/s 3/	From	To	CSA 4/	Leased Costs 1/ Monthly Recurring Costs	Leased Costs 1/ Annual Cost To DoD
Current Recurring Costs (cont'd)							$46,164
Recurring Costs of Multiplexing Action:							
	Cost of 1.544Mb/s[10] leased circuit					($2,740)	($32,880)[11]
	Codex Equipment Maintenance Contract[12]					(130)	(1,560)[13]
Total Annual Savings Resulting from Multiplexing Action							$11,724
Nonrecurring Costs of Multiplexing Action:							
	Installation of Circuit						($ 4,473)[11]
	Codex Multiplexing Equipment[12]						(12,632)[13]
Total Savings in the First Year Resulting from Multiplexing Action							($ 5,381)

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Circuit provides voice access to remote radio transmitters/receivers.
6/ Voice circuit.
7/ Naval Air Station Jacksonville, Jacksonville, Florida.
8/ Cape Canaveral, Florida.
9/ Data circuit in support of the Lightning Detection and Tracking System (LDATS).
10/ 1.544 Megabytes per second "T-1 service" (1,544 Kb/s) or 24 voice channels.
11/ Cost estimates obtained at DECCO through Federal Communications Commission Tariff No. 16.
12/ Codex T-1 Multiplexor with associated hardware and maintenance.
13/ Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 1. Table 5. Establish a New Trunk Through Multiplexing Navy Radar and Weather Circuits

(Routed via existing trunk from Jacksonville to Orlando and via new trunk from Orlando to Daytona, Florida)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7AK7	RADAR DATA CIRCUIT [5]	2.4	JCKSNVLL [6]	DAYTONA [7]	SB 52D 41271	$246	$ 2,952
					SB 52D 412718	15	180
					SB 56D 412719	18	216
BUED 7EJ0	RADAR DATA CIRCUIT	2.4	JCKSNVLL	DAYTONA	SB D 72999	246	2,952
					SB 52D 700145	54	648
					SB 56D 700029	18	216
BUED 7EJ1	RADAR DATA CIRCUIT	2.4	JCKSNVLL	DAYTONA	SB D 72996	246	2,952
					SB 52D 700002	54	648
					SB 56D 700001	18	216
BUED 7EJQ	RADAR DATA CIRCUIT	2.4	JCKSNVLL	DAYTONA	SB D 72997	246	2,952
					SB 52D 427012	54	648
					SB 56D 427011	18	216
BUED 7EFL	LDATS DATA CIRCUIT [8]	2.4	JCKSNVLL	DAYTONA	SB D 42122	406	4,872
					SB 52D 427104	45	540
					SB 52D 700130	42	504
					SB 56D 700023	15	180
Current Recurring Costs							$20,892

See footnotes on next page.

Category 1. Table 5. Establish a New Trunk Through Multiplexing Navy Radar and Weather Circuits

CCSD 2/	Description	Kb/s 3/	From	To	CSA 4/	Leased Costs 1/ Monthly Recurring Costs	Leased Costs 1/ Annual Cost To DoD
Current Recurring Costs (cont'd)							$20,892
Recurring Costs of Multiplexing Action:							
	Cost of 19.2 Kb/s leased circuit					($670)	($ 8,040) 9/
	Modem Maintenance Contracts (2 modems x 1 circuit x $3 = $6 per month)					(6)	(72) 10/
Total Annual Savings Resulting from Multiplexing Action							$12,780
Nonrecurring Costs of Multiplexing Action:							
	Installation of Circuit						($ 2,350) 9/
	Installation of Maintenance Contract (2 modems x 1 circuit x $63 = $126)						(126) 10/
	Freestanding Modems (2 modems x 1 circuit x $1,020 = $2,040)						(2,040) 10/
Total Savings in the First Year Resulting from Multiplexing Action							$ 8,264

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Data circuit providing access to remote digital radar facility.
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Daytona Regional Airport, Daytona, Florida.
8/ Data circuit in support of the Lightning Detection and Tracking System (LDATS).
9/ Cost estimates obtained at DECCO through the Federal Telephone System 2000 tariff.
10/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 1. Table 6. Establish a New Trunk Through Multiplexing Navy and Air Force Air Traffic Control Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7CS2 [5]	ATC DATA CIRCUIT [6]	2.4	CECILFLD [7]	HILLIARD [8]	SB 30D 13752	$ 78	$ 936
JPDD 7XHZ [9]	ATC DATA CIRCUIT	2.4	MOODY [10]	HILLIARD	AT 50D 00291	1,196	14,352
BHWD 7J8Q [11]	DATA CIRCUIT	9.6	PENSACOLA [12]	HILLIARD			
Current Recurring Costs							$15,288
Recurring Costs of Multiplexing Action:							
Cost of 19.2 Kb/s leased circuit [13]						($ 580)	($ 6,960) [14]
Modem Maintenance Contracts (2 modems x 1 circuit x $3 = $6 per month)						(6)	(72) [15]
Total Annual Savings Resulting from Multiplexing Action							$ 8,256
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 2,350) [14]
Installation of Maintenance Contract (2 modems x 1 circuit x $63 = $126)							(126) [15]
Freestanding Modems (2 modems x 1 circuit x $1,020 = $2,040)							(2,040) [15]
Total Savings in the First Year Resulting from Multiplexing Action							$ 3,740

See footnotes on next page.

Category 1. Table 6. Establish a New Trunk Through Multiplexing Navy and Air Force Air Traffic Control Circuits

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Kilobits per second - the standard unit for measuring the rate of data transmission.
4/Communications Service Authorization - identifies specific contract with vendor for each service.
5/Proposed trunk provides a tail circuit for this 2.4 kb/s circuit between Naval Air Station Cecil Field, Jacksonville, Florida, and Naval Air Station Jacksonville, Jacksonville, Florida (see Appendix C, Category 1., Table 3. for the Jacksonville, Florida, to Hilliard, Florida, leg of the proposed routing).
6/Data circuits in support of Air Traffic Control activities.
7/Naval Air Station Cecil Field, Jacksonville, Florida.
8/Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida.
9/Proposed trunk provides a tail circuit for this 2.4 kb/s circuit between Naval Air Station Jacksonville and Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida (see Appendix C, Category 1., Table 9. for the Valdosta, Georgia, to Jacksonville, Florida, leg of the proposed routing).
10/Moody Air Force Base, Valdosta, Georgia.
11/Proposed trunk provides a tail circuit for this 9.6 Kb/s circuit between Naval Air Station Jacksonville and Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida (see APPENDIX C, Category 2., Table 1. for the Pensacola, Florida, to Jacksonville, Florida, leg of this proposed routing).
12/Pensacola Naval Complex, Pensacola, Florida.
13/Additional capacity is included to allow this trunk to provide a tail circuit for BHWD 7J8Q (to be routed via an existing trunk between Jacksonville, Florida, and Pensacola, Florida).
14/Cost estimates obtained at DECCO through the Federal Telephone System 2000 tariff.
15/Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 1. Table 7. Establish a New Trunk Through Multiplexing Various Navy Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7BJY	RADAR DATA CIRCUIT[5]	2.4	JCKSNVLL[6]	MAYPORT[7]	SB 30D 13679	$160	$ 1,920
BUED 7BJZ	RADAR DATA CIRCUIT	2.4	JCKSNVLL	MAYPORT	SB 30D 13678	160	1,920
BUED 7BKK	RADAR DATA CIRCUIT	2.4	JCKSNVLL	MAYPORT	SB 30D 13677	160	1,920
BUED 7ALA	RADAR DATA CIRCUIT	2.4	JCKSNVLL	MAYPORT	SB 30D 13791	169	2,028
BUED 7HU1	LINK 11 DATA CIRCUIT[8]	2.4	JCKSNVLL	MAYPORT	SB 30D 13786	363	4,356
BWXD 7KQ8	LDATS DATA CIRCUIT[9]	1.2	JCKSNVLL	MAYPORT	SB 30D 302706	153	1,836
BUE9 724W	DDN ACCESS CIRCUIT[10]	9.6	JCKSNVLL	MAYPORT	GTES 30D 13768	446[11]	5,352
BUE9 78V3	DDN ACCESS CIRCUIT	9.6	JCKSNVLL	MAYPORT	GTES 52D 70003	471[12]	5,652
BKLR 7HNZ[13]	DATA CIRCUIT	2.4	NORFOLK[14]	MAYPORT			
BUED 7KJ3[15]	DATA CIRCUIT	9.6	PHILDLPH[16]	MAYPORT			
Current Recurring Costs							$24,984
Recurring Costs of Multiplexing Action:							
Cost of 56.0 Kb/s leased circuit						($749)	($ 8,988)[17]
Equipment Maintenance Contracts						(114)	(1,368)[18]
Total Annual Savings Resulting from Multiplexing Action							$14,628
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 961)[17]
Equipment Purchase Cost							(11,770)[18]
Total Savings in the First Year Resulting from Multiplexing Action							$ 1,897

See footnotes on next page.

Category 1. Table 7. Establish a New Trunk Through Multiplexing Various Navy Circuits

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Kilobits per second - the standard unit for measuring the rate of data transmission.
4/Communications Service Authorization - identifies specific contract with vendor for each service.
5/Data circuit providing access to remote digital RADAR facility.
6/Naval Air Station Jacksonville, Jacksonville, Florida.
7/Naval Station Mayport, Mayport, Florida.
8/Data circuit supporting the Tactical Data Interface Link - (TADIL-A) system.
9/Data circuit in support of the Lightning Detection and Tracking System (LDATS).
10/Data circuit providing access to the Defense Data Network to users at Naval Station Mayport.
11/Leased equipment makes up $227 of the monthly recurring cost of this circuit ($446 - $227 = $219).
12/Leased equipment makes up $250 of the monthly recurring cost of this circuit ($471 - $250 = $221).
13/Proposed trunk provides tail circuit for this 2.4 Kb/s circuit between Naval Air Station Jacksonville and Naval Station Mayport (see APPENDIX C, Category 2., Table 1. for the Norfolk, Virginia, to Jacksonville, Florida, leg of this proposed routing).
14/Norfolk Naval Complex, Norfolk, Virginia.
15/Proposed trunk provides a tail circuit for this 9.6 Kb/s circuit between Naval Air Station Jacksonville and Naval Station Mayport (see APPENDIX C, Category 2., Table 3. for the Philadelphia, Pennsylvania, to Jacksonville, Florida, leg of this proposed routing).
16/Philadelphia Naval Complex, Philadelphia, Pennsylvania.
17/Cost estimates obtained at DECCO through Federal Communication Commission Tariff No. 16.
18/Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 1. Table 8. Establish a New Trunk Through Multiplexing Air Force Air Traffic Control Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
JPPD 7JSD	ATC DATA CIRCUIT [5]	19.2	MOODY [6]	JCKSNVLL [7]	GTES D 00846	$ 759	$ 9,108
JRPD 7JH2	ATC DATA CIRCUIT	9.6	MOODY	JCKSNVLL	AT D 99290	801	9,612
					PRDN OCY 48351	18	216
Current Recurring Costs							$18,936
Recurring Costs of Multiplexing Action:							
Cost of 56.0 Kb/s leased circuit						($1,077)	($12,924) [8]
DSU/CSU [9] Maintenance Contracts (2 DSU/CSUs x 1 circuit x $12 = $24 per month)						(24)	(288) [10]
Total Annual Savings Resulting from Multiplexing Action							$ 5,724
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 2,050) [8]
Freestanding DSU/CSUs (2 DSU/CSUs x 1 circuit x $1,921 = $3,842)							(3,842) [10]
Total Savings in the First Year Resulting from Multiplexing Action							($ 168)

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.

[2] Command Communications Service Designator.

[3] Kilobits per second - the standard unit for measuring the rate of data transmission.

[4] Communications Service Authorization - identifies specific contract with vendor for each service.

[5] Data circuits in support of Air Traffic Control activities.

[6] Moody Air Force Base, Valdosta, Georgia.

[7] Jacksonville International Airport, Jacksonville, Florida.

[8] Cost estimates obtained at DECCO through the Federal Telephone System 2000 tariff.

[9] Data Service Unit/Channel Service Unit - a device allowing data transmission over digital telecommunications circuits.

[10] Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 1. Table 9. Establish a New Trunk Through Multiplexing Various Air Force Circuits

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
JUE9 75YT	DDN ACCESS CIRCUIT[5]	1.2	MOODY[6]	JCKSNVLL[7]	GTES D 66473 002	$1,028[8]	$12,336
JPPD 7XHZ[9]	ATC DATA CIRCUIT[10]	2.4	MOODY	HILLIARD[11]			
Current Recurring Costs							$12,336
Recurring Costs of Multiplexing Action:							
Cost of 4.8 Kb/s leased circuit[12]						($ 568)	($ 6,816)[13]
Modem Maintenance Contracts (2 modems x 1 circuit x $4 = $8 per month)						(2)	(24)[14]
Total Annual Savings Resulting from Multiplexing Action							$ 5,496
Nonrecurring Costs of Multiplexing Action:							
Installation of Circuit							($ 1,700)[13]
Installation of Maintenance Contract (2 modems x 1 circuit x $56 = $112)							(112)[14]
Freestanding Modems (2 modems x 1 circuit x $843 = $1,686)							(1,686)[14]
Total Savings in the First Year Resulting from Multiplexing Action							$ 1,998

See footnotes on next page.

Category 1. Table 9. Establish a New Trunk Through Multiplexing Various Air Force Circuits

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Data circuit providing access to the Defense Data Network to users at Moody Air Force Base, Valdosta, Georgia.
6/ Moody Air Force Base, Valdosta, Georgia.
7/ Naval Air Station Jacksonville, Jacksonville, Florida.
8/ Leased equipment makes up $82 of the monthly recurring cost of this circuit ($1,028 - $82 = $942).
9/ Proposed trunk provides tail circuit for this 2.4 Kb/s circuit between Naval Air Station Jacksonville and Moody Air Force Base (see APPENDIX C, Category 1., Table 6. for the Jacksonville, Florida, to Hilliard, Florida, leg of this proposed routing).
10/ Data circuits in support of Air Traffic Control activities.
11/ Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida.
12/ Additional capacity is included to allow this trunk to provide a tail circuit for JPPD 7XHZ to be routed via proposed trunk to Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida (see APPENDIX C, Category 1., Table 6).
13/ Cost estimates obtained at DECCO through the Federal Telephone System 2000 tariff.
14/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 2. Table 1. Route Circuits Over Existing Navy Network to Various Locations

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BKLR 7HNZ [5]	RADIO ACCESS CIRCUIT [6]	2.4	NORFOLK [7]	MAYPORT [8]	AT DP 51835	$ 1,535	$18,420
BT4M 7KJG	ASW DATA CIRCUIT [9]	19.2	HMPTNRDS [10]	JCKSNVLL [11]	AT D 55494	979	11,748
BT4X 6H5J	ASW DATA CIRCUIT	9.6	NORFOLK	JCKSNVLL	USTS D 00768 001	480	5,760
					AT D 08749	875	10,500
BUED 7M1B	NAVSCIPS DATA CIRCUIT [12]	19.2	NORFOLK	JCKSNVLL	AT D 89700 932	765	9,180
BUED 7M1C	NAVSCIPS DATA CIRCUIT	9.6	NORFOLK	JCKSNVLL	AT D 89700 933	765	9,180
BZMV 7NMX	RADIO ACCESS CIRCUIT	V [13]	JCKSNVLL	NORFOLK	AT P 08760	678	8,136
BHWD 7J8Q [14]	ATC DATA CIRCUIT [15]	9.6	PENSACOLA [16]	HILLIARD [17]	SNNT D 86107	415	4,980
BUED 7H2J	LOGISTICS DATA CIRCUIT [18]	19.2	PENSACOLA	JCKSNVLL	ABI D 03964	1,443 [19]	17,316
					SB 48D 700555	40	480
					SB 52D 702562	51	612
Current Recurring Costs							$96,312
Recurring Costs of Multiplexing Action:							
Modem Maintenance Contracts (2 modems x 1 circuit x $1 = $2 per month)						($ 2)	($ 24) [20]
Total Annual Savings Resulting from Multiplexing Action							$96,288
Nonrecurring Costs of Multiplexing Action:							
Installation of Maintenance Contract (2 modems x 1 circuit x $63 = $126)							($ 126) [20]
Freestanding Modems (2 modems x 1 circuit x $763 = $1,526)							(1,526) [20]
Total Savings in the First Year Resulting from Multiplexing Action							$94,636

See footnotes on next page.

Category 2. Table 1. Route Circuits Over Existing Navy Network to Various Locations

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Existing trunk provides tail circuit for this 2.4 Kb/s circuit between Norfolk Naval Complex, Norfolk, Virginia, and Naval Air Station Jacksonville, Florida (see APPENDIX C, Category 1., Table 7. for the Jacksonville, Florida, to Mayport, Florida, leg of this proposed routing).
6/ Circuit provides data access to remote radio transmitters/receivers.
7/ Norfolk Naval Complex, Norfolk, Virginia.
8/ Naval Station Mayport, Mayport, Florida.
9/ Data circuit in support of Anti-Submarine Warfare Command and Control.
10/ Naval Telecommunications Center, Hampton Roads, Virginia.
11/ Naval Air Station Jacksonville, Jacksonville, Florida.
12/ Data circuit in support of the Navy Standard Civilian Pay System.
13/ Voice circuit.
14/ Existing trunk provides tail circuit for this 9.6 Kb/s circuit between Naval Air Station Jacksonville and Pensacola Naval Complex, Pensacola, Florida (see APPENDIX C, Category 1., Table 6. for the Hilliard, Florida, to Jacksonville, Florida, leg of this proposed routing).
15/ Data circuit in support of Air Traffic Control activities.
16/ Pensacola Naval Complex, Pensacola, Florida.
17/ Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida.
18/ Data circuit in support of the Naval Supply Logistics Network.
19/ Leased modems make up $832 of the monthly recurring cost of this circuit ($1,443 - $832 = $611). Analysis includes the effects of purchasing modems to replace the leased modums.
20/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 2. Table 2. Route Circuits Over Existing Navy Network to Portsmouth, Virginia

(Routed via existing trunks from Jacksonville to Norfolk and via new multiplexed tail circuit from Norfolk to Portsmouth, Virginia)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7KC0	DATA CIRCUIT	9.6	JCKSNVLL [5]	PORTSMTH [6]	ABI D 33111	$1,261	$15,132
BUED 7KC1	DATA CIRCUIT	9.6	JCKSNVLL	PORTSMTH	ABI D 33112	1,261	15,132
BUED 7KC2	DATA CIRCUIT	9.6	JCKSNVLL	PORTSMTH	ABI D 33113	1,261	15,132
BUED 7KC3	DATA CIRCUIT	9.6	JCKSNVLL	PORTSMTH	ABI D 33114	1,261	15,132
Current Recurring Costs							$60,528
Recurring Costs of Multiplexing Action:							
Cost of 56.0 Kb/s leased tail circuit						($ 729)	($ 8,748) [7]
DSU/CSU [8] Maintenance Contracts							
(2 DSU/CSUs x 1 circuit x $12 = $24 per month)						(24)	(288) [9]
Total Annual Savings Resulting from Multiplexing Action							$51,492
Nonrecurring Costs of Multiplexing Action:							
Installation of tail circuit							($ 1,936) [7]
Freestanding DSU/CSUs (2 DSU/CSUs x 1 circuit x $1,921 = $3,842)							(3,842) [9]
Total Savings in the First Year Resulting from Multiplexing Action							$45,714

See footnotes on next page.

Category 2. Table 2. Route Circuits Over Existing Navy Network to Portsmouth, Virginia

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Kilobits per second - the standard unit for measuring the rate of data transmission.
4/Communications Service Authorization - identifies specific contract with vendor for each service.
5/Naval Air Station Jacksonville, Jacksonville, Florida.
6/Naval Sea Support Center, Portsmouth, Virginia.
7/Cost estimates obtained from DECCO through the Federal Communications Commission Tariff No. 16.
8/Data Service Unit/Channel Service Unit - a device allowing data transmission over digital telecommunications circuits.
9/Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 2. Table 3. Route Circuits Over Existing Navy Network to Philadelphia, Pennsylvania

(Routed via existing trunks from Jacksonville, Florida, to Washington, DC, and multiplexed tail circuit from Washington, DC, to Philadelphia)[1/]

CCSD[3/]	Description	Kb/s[4/]	From	To	CSA[5/]	Leased Costs[2/] Monthly Recurring Costs	Leased Costs[2/] Annual Cost To DoD
BUED 7JRH	DATA CIRCUIT	9.6	JCKSNVLL[6/]	PHILDLPH[7/]	ABI D 33101	$1,315[8/]	$15,780
BUED 7KJ3[9/]	DATA CIRCUIT	9.6	PHILDLPH	MAYPORT[10/]	SNNT D 84964	626	7,512
BUED 7KKZ	SCLSIS DATA CIRCUIT[11/]	9.6	JCKSNVLL	PHILDLPH	ABI D 33130	1,315[8/]	15,780
Current Recurring Costs							$39,072
Recurring Costs of Multiplexing Action:							
Cost of 56.0 Kb/s Leased Tail Circuit						($1,002)	($12,024)[12/]
DSU/CSU[13/] Maintenance Contracts (2 DSU/CSUs x 1 circuit x $12 = $24 per month)						(24)	(288)[14/]
Total Annual Savings Resulting from Multiplexing Action							$26,760
Nonrecurring Costs of Multiplexing Action:							
Installation of Tail Circuit							($ 1,901)[12/]
Freestanding DSU/CSUs (2 DSU/CSUs x 1 circuit x $1,921 = $3,842)							(3,842)[14/]
Total Savings in the First Year Resulting from Multiplexing Action							$21,017

See footnotes on next page.

Category 2. Table 3. Route Circuits Over Existing Navy Network to Philadelphia, Pennsylvania

Footnotes

1/ Recommendation valid as of audit cutoff in December 1990; however, September 1991 installation of additional Navy Network terminations allows direct routing via the Navy Network to the Philadelphia, Pennsylvania, area.
2/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
3/ Command Communications Service Designator.
4/ Kilobits per second - the standard unit for measuring the rate of data transmission.
5/ Communications Service Authorization - identifies specific contract with vendor for each service.
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Naval Sea Systems Command Logistics Center, Philadelphia Naval Complex, Philadelphia, Pennsylvania.
8/ Leased modems make up $219 of the monthly recurring cost of these circuits ($1,315 - $219 = $1,096). Analysis includes the effects of purchasing modems to replace the leased modems.
9/ Existing trunk provides tail circuit for this 9.6 Kb/s circuit between Naval Air Station Jacksonville and Philadelphia Naval Complex, Philadelphia (see APPENDIX C, Category 1., Table 7. for the Mayport, Florida, to Jacksonville, Florida, leg of this proposed routing).
10/ Mayport Naval Station, Mayport, Florida.
11/ Data circuit in support of the Ship Configuration Logistics Support Information System.
12/ Cost estimates obtained at DECCO through the Federal Communications Commission Tariff No. 16.
13/ Data Service Unit/Channel Service Unit - a device that allows data transmission over digital telecommunications circuits.
14/ Cost data obtained from a General Services Administration Purchase Pricing Schedule provided by a representative vendor.

Category 2. Table 4. Route Circuit Over Existing Navy Network to Virginia Beach, Virginia

(Route via existing trunk from Jacksonville to Norfolk and via tail circuit from Norfolk to Virginia Beach, Virginia)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BZMV 7PAQ	ATC VOICE CIRCUIT [5]	V [6]	JCKSNVLL [7]	OCEANA [8]	ABI P 08703	$755	$9,060
Current Recurring Costs							9,060
Recurring Costs of Multiplexing Action:							
Cost of voice grade leased tail circuit						($288)	($3,456) [9]
Total Annual Savings Resulting from Multiplexing Action							$5,604
Nonrecurring Costs of Multiplexing Action:							
Installation of tail circuit							($2,445) [9]
Total Savings in the First Year Resulting from Multiplexing Action							$3,159

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
[2] Command Communications Service Designator.
[3] Kilobits per second - the standard unit for measuring the rate of data transmission.
[4] Communications Service Authorization - identifies specific contract with vendor for each service.
[5] Voice circuit in support of Air Traffic Control activities.
[6] Voice circuit.
[7] Naval Air Station Jacksonville, Jacksonville, Florida.
[8] Fleet Area Control and Surveillance Facility, Naval Air Station Oceana, Virginia Beach, Virginia.
[9] Cost estimate obtained at DECCO through the Federal Communications Commission Tariff No. 16.

Category 2. Table 5. Route Circuit Over Existing Navy Network to Pensacola, Florida

(Route via existing trunk from Pensacola to Jacksonville and via tail circuit from Jacksonville to Hilliard, Florida)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BZMV 7PSP	ATC VOICE CIRCUIT[5]	V[6]	PENSACOLA[7]	HILLIARD[8]	SB 30P 13243	$561	$6,732
					SB 30P 13243 SB2	27	324
					ABI 30Q 13243 SB	31	372
					NODZ 30P 13243	39	468
					SB 30P 13243 SB1	15	180
Current Recurring Costs							$8,076
Recurring Costs of Multiplexing Action:							
Cost of voice grade leased tail circuit						($279)	($3,348)[9]
Total Annual Savings Resulting from Multiplexing Action							4,728
Nonrecurring Costs of Multiplexing Action:							
Installation of tail circuit							($1,884)[9]
Total Savings in the First Year Resulting from Multiplexing Action							$2,844

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net cost to the Government.

[2] Command Communications Service Designator.

[3] Kilobits per second - the standard unit for measuring the rate of data transmission.

[4] Communications Service Authorization - identifies specific contract with vendor for each service.

[5] Voice circuit in support of Air Traffic Control activities.

[6] Voice circuit.

[7] Pensacola Naval Complex, Pensacola, Florida.

[8] Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida.

[9] Cost estimate obtained at DECCO through the Federal Communications Commission Tariff No. 16.

Category 3. Table 1. Established a New Routing Through the Defense Data Network (DDN)

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
Navy							
BUED 7ER3	RESFMS CIRCUIT[5]	9.6	MARIETTA[6]	JCKSNVLL[7]	ABI D 27069	$1,051	$ 12,612
BUED 7KDU	DATA CIRCUIT	4.8	JCKSNVLL	JCKSNVLL	SB 77LD 84231	38	456
					ABI Q 84231 SB	130	1,560
BUED 7KDV	DATA CIRCUIT	4.8	JCKSNVLL	JCKSNVLL	AT 05X 00310	369	4,428
BUED 7KYQ	QUICKTRANS CIRCUIT[8]	4.8	JCKSNVLL	MIAMI[9]	SNNT D 87897	498	5,976
BUED 7NC6	DATA CIRCUIT	56.0	JCKSNVLL	ORLANDO[10]	ATW 89700 881	1,223	14,676
BUED 7URD	DATA CIRCUIT	4.8	NORFOLK[11]	JCKSNVLL	ABI D 15537	5,680	68,160
Air Force							
JAKD 7JSC	DATA CIRCUIT	9.6	JCKSNVLL	HOMESTEAD[12]	USTS D 00930 001	605	7,260
Current Recurring Costs							$115,128
Recurring Costs of Reconfiguration Actions:							
Cost of Leased DDN Access Circuits						($ 951)	($ 11,412)[13]
Maintenance Contracts (24 modems x $4 = $96 per month)						(96)	(1,152)[14]
(4 DSU/CSUs[15] x $3 = $12 per month)						(12)	(144)[14]
Total Annual Savings Resulting from Reconfiguration Actions:							$102,420
Nonrecurring Costs of Reconfiguration Actions:							
Installation of Circuits							($ 2,329)[13]
Freestanding Modems (20 limited-distance modems x $525 = $10,500)							(10,500)[14]
(4 leased-line modems x $709 = $2,836)							(2,836)[14]
Freestanding DSU/CSUs (4 DSU/CSUs x $435 = $1,740)							(1,740)[14]
Installation of Modems (20 limited-distance modems x $48 = $960)							(960)[14]
(4 leased-line modems x $56 = $224)							(224)[14]
Installation of DSU/CSUs (4 DSU/CSUs x $56 = $224)							(224)[14]
Total Savings in First Year Resulting from Reconfiguration Actions:							$ 83,607

See footnotes on next page.

Category 3. Table 1. Establish a New Routing Through the Defense Data Network (DDN)

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Kilobits per second - the standard unit for measuring the rate of data transmission.
4/Communications Service Authorization - identifies a specific contract with vendor for each service.
5/Reserve Financial Management System.
6/Naval Air Station Atlanta, Marietta, Georgia.
7/Naval Air Station Jacksonville, Jacksonville, Florida.
8/Quick Transportation System.
9/Southern Air Transport, Miami, Florida.
10/Naval Training Center, Orlando, Florida.
11/Naval Station Norfolk, Norfolk, Virginia.
12/Homestead Air Force Base, Homestead, Florida.
13/Cost data obtained at DECCO through a comparison of representative telecommunication vendors' cost estimates.
14/Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.
15/Data Service Unit/Channel Service Unit - a device allowing data transmission over digital telecommunications circuits.

Category 3. Table 2. Establish a New Routing Through the Defense Data Network (DDN) and Establish a New Trunk Through Multiplexing DDN Access Circuits

CCSD[2]	Description	Kb/s[3]	From	To	CSA[4]	Leased Costs[1] Monthly Recurring Costs	Leased Costs[1] Annual Cost To DoD
BUED 7BS7	RESFMS CIRCUIT[5]	9.6	JCKSNVLL[6]	NORLEANS[7]	ABI D 97491	$1,004	$12,048
BUED 7E2B	RTSS-AIR CIRCUIT[8]	9.6	JCKSNVLL	NORLEANS	ABI D 32699	1,098	13,176
BUED 7G2W	RESFMS CIRCUIT	9.6	NORLEANS	JCKSNVLL	ABI D 37091	3,200	38,400
BUED 7HE6	RESFMS CIRCUIT	9.6	CECILFLD[9]	NORLEANS	ABI D 37098	2,902	34,824
Current Recurring Costs							$98,448
Recurring Costs of Reconfiguration Actions:							
Cost of Leased DDN Access Circuits						($1,162)	($13,944)[10]
Maintenance Contracts (14 limited-distance modems x $1 = $14)						(14)	(168)[11]
(2 leased-line modems x $4 = $8)						(8)	(96)[11]
(2 DSU/CSUs[12] x $12 = $24)						(24)	(288)[13]
Total Annual Savings Resulting from Reconfiguration Actions:							$83,952
Nonrecurring Costs of Reconfiguration Actions:							
Installation of Circuits							($ 1,809)[10]
Freestanding Modems (14 limited-distance modems x $190 = $2,600)							(2,660)[11]
(2 leased-line modems x $525 = $1,050)							(1,050)[11]
Freestanding DSU/CSUs (2 DSU/CSUs x $1,921 = $3,842)							(3,842)[13]
Installation of Modems (14 limited-distance modems x $39 = $546)							(546)[11]
(2 leased-line modems x $48 = $96)							(96)[11]
Total Savings in First Year Resulting from Reconfiguration Actions							$73,949

See footnotes on next page.

Category 3. Table 2. Establish a New Routing Through the Defense Data Network (DDN) and Establish a New Trunk Through Multiplexing DDN Access Circuits

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Kilobits per second - the standard unit for measuring the rate of data transmission.
4/ Communications Service Authorization - identifies a specific contract with vendor for each service.
5/ Reserve Financial Management System.
6/ Naval Air Station Jacksonville, Jacksonville, Florida.
7/ Commander, Naval Reserve Force, New Orleans, Louisiana.
8/ Reserve Training Support System - Air.
9/ Naval Air Station Cecil Field, Jacksonville, Florida.
10/ Cost data obtained at DECCO through a comparison of representative telecommunication vendors' cost estimates.
11/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.
12/ Data Service Unit/Channel Service Unit - a device allowing data transmission over digital telecommunications circuits.
13/ Cost data obtained through the equipment catalog of a representative vendor.

Category 3. Table 3. Reroute to the Naval Air Station Jacksonville Concentrator

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUE9 7449	DDN ACCESS CIRCUIT	4.8	JCKSNVLL [5]	JCKSNVLL	GTES 31D 279589	$231	$2,772
	Recurring Costs of Reconfiguration Action:						
	Modem Maintenance Contracts (2 modems x $4 = $8 per month)					(8)	(96) [6]
Total Annual Savings Resulting from Reconfiguration Action:							$2,676
	Nonrecurring Costs of Reconfiguration Action:						
	Freestanding Modems (2 modems x $525 = $1,050)						($1,050) [6]
	Installation of Modems (2 modems x $48 = $96)						(96) [6]
Total Savings in First Year Resulting from Reconfiguration Action							$1,530

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.

[2] Command Communications Service Designator.

[3] Kilobits per second - the standard unit for measuring the rate of data transmission.

[4] Communications Service Authorization - identifies a specific contract with vendor for each service.

[5] Naval Air Station Jacksonville, Jacksonville, Florida.

[6] Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 4. Table 1. Rehome Defense Data Network Access Circuits

Current Configuration						Leased Costs[1]	
CCSD[4]	CSA[5]	Host[2] Location	Current Node[3] Location	Kb/s[6]	Proposed Node Location	Monthly Recurring Costs	Annual Cost To DoD
Air Force							
JRP9 743D	GTES D 3110 008	PATRICK[7]	JCKSNVLL[8]	9.6	PATRICK	$ 925	$11,100
JUE9 772F	USTS W 00977	HRLBFLD[9]	JCKSNVLL	56.0	PENSACOLA[10]	1,492	17,904
Defense Mapping Agency							
NUE9 73A5	ABI D 66478 003	PATRICK	JCKSNVLL	4.8	PATRICK	968	11,616
NUE9 73A6	ABI D 66478 004	PATRICK	JCKSNVLL	4.8	PATRICK	878	10,536
Current Recurring Costs							$51,156
Recurring Costs of Reconfiguration Actions:							
Cost of Leased Access Circuit						($1,481)	($17,772)[11]
Maintenance (12 limited-distance modems x $1 = $12 per month)						(12)	(144)[12]
Maintenance (4 DSU/CSUs[13] x $3 = $12 per month)						(12)	(144)[12]
Total Annual Savings Resulting from Reconfiguration Actions:							$33,096
Nonrecurring Costs of Reconfiguration Actions:							
Installation of Circuit							(654)[11]
Freestanding Modems (12 limited-distance modems x $190 = $2,280)							(2,280)[12]
Freestanding DSU/CSUs (4 DSU/CSUs x 1 circuit x $435 = $1,740)							(1,740)[12]
Installation of Modems (12 limited-distance modems x $39 = $468)							(468)[12]
Installation of DSU/CSUs (4 DSU/CSUs x 1 circuit x $56 = $224)							(224)[12]
Total Savings in First Year Resulting from Reconfiguration Actions							$27,730

See footnotes on next page.

Category 4. Table 1. Rehome Defense Data Network Access Circuits

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ The location of the computer or network that is linked to the Defense Data Network (DDN) via the circuit.
3/ The standard point of access for the DDN where the users are interfaced into the network.
4/ Command Communications Service Designator.
5/ Communications Service Authorization - identifies specific contract with vendor for each service.
6/ Kilobits per second - the standard unit for measuring the rate of data transmission.
7/ Patrick Air Force Base, Cocoa Beach, Florida.
8/ Naval Air Station Jacksonville, Jacksonville, Florida.
9/ Hurlburt Field, Valparaiso, Florida.
10/ Naval Complex Pensacola, Pensacola, Florida.
11/ Cost data obtained at DECCO through a comparison of representative telecommunications vendors' cost estimates.
12/ Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.
13/ Data Service Unit/Channel Service Unit - a device allowing data transmission over digital telecommunications circuits.

Category 4. Table 2. Rehome a Special-Purpose Network Access Circuit

Current Configuration						Leased Costs [1]	
CCSD [3]	CSA [4]	User Location	Current Gateway [2] Location	Kb/s [5]	Proposed Gateway Location	Monthly Recurring Costs	Annual Cost To DoD
BUED 7BBE	AT D 97540	ORLANDO [6]	JCKSNVLL [7]	9.6	ORLANDO	$2,140	$25,680
Recurring Cost of Reconfiguration Action:							
Modem Maintenance (2 modems x $1 = $2 per month)						(2)	(24) [8]
Total Annual Savings Resulting from Reconfiguration Action							$25,656
Nonrecurring Costs for Reconfiguration Action:							
Freestanding Modems (2 modems x $709 = $1,418)							($ 1,418) [8]
Installation of Modems (2 modems x $56 = $112)							(112) [8]
Total Savings in First Year Resulting from Reconfiguration Action							$24,126

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
[2] The point of access to the special purpose network.
[3] Command Communications Service Designator.
[4] Communications Service Authorization - identifies specific contract with vendor for each service.
[5] Kilobits per second - the standard unit for measuring the rate of data transmission.
[6] Naval Training Center, Orlando, Florida.
[7] Naval Air Station Jacksonville, Jacksonville, Florida.
[8] Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 5. Establish a Dial-Up Connection and Disconnect the Associated Dedicated Circuit

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
Army							
URED 7C1D	DARMS CIRCUIT [5]	9.6	FTGILLEM [6]	CPBLNDNG [7]	AT D 22787	$ 1,915	$22,980
Navy							
BUED 7E2C	DATA CIRCUIT	4.8	JCKSNVLL [8]	CECILFLD [9]	SB 31D 26861	57	684
					ABI 31Q 26861 SB	236	2,832
Air Force							
JAKD 7ENC	AFMPC CIRCUIT [10]	2.4	MOODY [11]	JCKSNVLL [11]	AT D 33664	801	9,612
					PRDNOC Y 48275	9	108
JAKD 7END	AFMPC CIRCUIT	2.4	MOODY	STAUGSTN [12]	AT D 33665	905	10,860
					PRDNOC Y 48283	18	216
Current Recurring Costs							$47,292
Recurring Costs of Reconfiguration Actions:							
Cost of Local Telephone Access						($ 160)	($ 1,920) [13]
Long-Distance Toll Charges (4,950 minutes x $.21 = $1,040) [14]						(1,040)	(12,480)
Maintenance Contracts (4 dial modems x $4 = $16 per month)						(16)	(192) [15]
(4 dial modems x $3 = $12 per month)						(12)	(144) [15]
Total Annual Savings Resulting from Reconfiguration Actions:							$32,556
Nonrecurring Costs of Reconfiguration Actions:							
Installation of Local Telephone Access							($ 356) [15]
Freestanding Modems							(2,844) [15]
Installation of Modems (8 dial modems x $48 = $384)							(384) [15]
Total Savings in the First Year Resulting from Reconfiguration Actions							$28,972

See footnotes on next page.

Category 5. Establish a Dial-Up Connection and Disconnect the Associated Dedicated Circuit

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Kilobits per second - the standard unit for measuring the rate of data transmission.
4/Communications Service Authorization - identifies a specific contract with vendor for each service.
5/Developmental Army Readiness and Mobilization System.
6/Fort Gillem, Forest Park, Georgia.
7/Camp Blanding, Starke, Florida.
8/Naval Air Station Jacksonville, Jacksonville, Florida.
9/Naval Air Station Cecil Field, Jacksonville, Florida.
10/Air Force Military Personnel Command.
11/Moody Air Force Base, Valdosta, Georgia. For CCSD JAKD 7ENC, the geographic location abbreviation "JCKSNVLL" represents the Florida Air National Guard Detachment at the Jacksonville International Airport, Jacksonville, Florida.
12/Headquarters, Florida Air National Guard, St. Augustine, Florida.
13/Cost estimate obtained from local telephone carrier customer service department.
14/Toll charge obtained from long-distance telephone carrier customer service department. The minutes shown represent the current monthly use of the four circuits listed.
15/Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Category 6. Purchase Leased Modems

CCSD [2]	Description	Kb/s [3]	From	To	CSA [4]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
Navy							
BUED 7H1T	DATA CIRCUIT	19.2	JCKSNVLL[5]	MCNCSBRG[6]	ABI D 93260	$840	$10,080
Current Recurring Cost of Leased Modems							$10,080
Recurring Costs of Modem Purchase Actions:							
Modem Maintenance Contracts (2 modems x $1 = $2 per month)						($ 2)	($ 24)[7]
Total Annual Savings Resulting from Modem Purchase Actions:							$10,056
Nonrecurring Costs of Modem Purchase Actions:							
Freestanding Modems (2 modems x $763 = $1,526)							($ 1,526)[7]
Installation of Modems (2 modems x $63 = $126)							(126)[7]
Total Savings in the First Year Resulting from Modem Purchase Actions							$ 8,404

Footnotes

[1] The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.

[2] Command Communications Service Designator.

[3] Kilobits per second - the standard unit for measuring the rate of data transmission.

[4] Communications Service Authorization - identifies a specific contract with vendor for each service.

[5] Naval Air Station Jacksonville, Jacksonville, Florida.

[6] Naval Ship Parts Control Center, Mechanicsburg, Pennsylvania.

[7] Cost data obtained at DECCO through the 1991 Codex Bulk Modem Purchase Catalog.

Summary of Circuits Recommended for Reconfiguration.

Sample Circuits	CIRCUIT[4] COUNT	ANNUAL[1] RECURRING COST	RECURRING COST OF[2] RECONFIGURATION ACTION	ANNUAL[3] RECURRING SAVINGS
Multiplexing[5]	52[6]	$422,508	$151,980	$270,528
Rehome Special-Purpose Circuits To a General-Purpose Network[7]	12[6]	216,348	27,300	189,048
Rehome Special-Purpose Access Circuits Within a General-Purpose Network[8]	4	51,156	18,060	33,096
Rehome a Special-Purpose Access Circuit Within a Special-Purpose Network[9]	1	25,680	24	25,656
Establish Dial-Up Service[10]	4	47,292	14,736	32,556
Purchase Leased Equipment[11]	1	10,080	24	10,056
Total	74	$773,064	$212,124	$560,940
Non-Sample Circuits				
Multiplexing[12]	4	$ 4,260	$ --[13]	$ 4,260

See footnotes on next page.

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office to communications vendors. The costs shown on this schedule are net costs to the Government.

2/ The recurring cost to complete the reconfiguration action.

3/ The annual recurring savings resulting from the reconfiguration action.

4/ The number of circuits recommended for reconfiguration.

5/ See Category 1 (Tables 1. through 9.)- Establish a New Trunk Through Multiplexing (35 circuits) and Category 2 (Tables 1. through 5.) - Route Circuit Over Existing Network (17 circuits).

6/ Five circuits; BHWD 7J8Q, BKLR 7HNZ, BUED 7CS2, BUED 7KJ3 and JPDD 7XHZ were each shown in two reconfiguration solutions involving the establishment of new trunks, routing over existing trunks and associated tail circuits. Those five circuits are listed only once in this summary to avoid a duplication in the count.

7/ See Category 3 (Tables 1. through 3.).

8/ See Category 4 (Table 1).

9/ See Category 4 (Table 2).

10/ See Category 5.

11/ See Category 6.

12/ See Category 1 (Table 3).

13/ Total cost of the reconfiguration solution is included under the results for the sample circuit.

Appendix D. Schedule of Circuits Recommended for Termination

CCSD [2]	Description	From	To	CSA [3]			Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
Navy								
BABV 7MHH	VOICE CIRCUIT	JCKSNVLL[4]	NORFOLK[5]	AT	42X	36751	$ 563	$ 6,756
BCLR 7BH2	CONTROL LINE	JCKSNVLL	MAYPORT[6]	SB	30D	13861	160	1,920
BCLR 7BH3	CONTROL LINE	JCKSNVLL	MAYPORT	SB	30D	13863	160	1,920
BKLV 7LYT[7]	KEYING LINE	JCKSNVLL	MAYPORT	SB	30C	13320	101	1,212
BKLY 7UVC[7]	KEYING LINE	JCKSNVLL	CCANAVRL[8]	SB	30D	65011	319	3,828
				SB	52D	700054	54	648
				SB	58D	700379	81	972
BT1X 6HOV	LDCN CIRCUIT[9]	PHILDLPH[10]	JCKSNVLL	ABI		D 15296 004	2,099	25,188
BUED 7AF9[7]	LDCN CIRCUIT	PHILDLPH	JCKSNVLL	SB	31D	13216	2	24
				ABI	31Q	13216 SB	213	2,556
BUED 7AL3[7]	DATA CIRCUIT	JCKSNVLL	MAYPORT	SB	30D	13652	160	1,920
BUED 7ALG[7]	DATA CIRCUIT	JCKSNVLL	CECILFLD[11]	SB	31D	27960	72	864
BUED 7EJ2[7]	DATA CIRCUIT	JCKSNVLL	CECILFLD	SB	31D	226859	57	684
BUED 7EJ3[7]	DATA CIRCUIT	JCKSNVLL	CECILFLD	SB	31D	226858	57	684
BUED 7EJ4[7]	DATA CIRCUIT	JCKSNVLL	CECILFLD	SB	31D	226857	58	696
BUED 7GXQ[7]	DATA CIRCUIT	JCKSNVLL	CECILFLD	SB	31P	00935	58	696
				ABI	31Q	00935 SB	352	4,224
BUED 7UEW[7]	LDCN CIRCUIT	PHILDLPH	JCKSNVLL	SB	31D	14069	--	--
				ABI	31Q	14069 SB	219	2,628
BUED 7WEK[7]	LDCN CIRCUIT	PHILDLPH	CECILFLD	SB	31PD	13115	58	696
				ABI	31Q	13115 SB	221	2,652
BUED 7WEP[7]	LDCN CIRCUIT	PHILDLPH	JCKSNVLL	SB	31PD	13113	1	12
				ABI	31Q	13113 SB	173	2,076
BUER 7GXP	VOICE/RECORD CIRCUIT	JCKSNVLL	CECILFLD	SB	31DP	00934	73	876
				ABI	31Q	00934 SB	601	7,212

See footnotes at end of chart.

CCSD [2]	Description	From	To	CSA [3]			Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUE9 77GW	DDN ACCESS CIRCUIT[12]	MAYPORT	JCKSNVLL	GTES	52D	412017	467	5,604
BUMV 7JDZ	VOICE CIRCUIT	MAYPORT	JCKSNVLL	SB	30P	06034	160	1,920
				ABI	30Q	06034 SB	18	216
BUMV 7JKX[7]	VOICE CIRCUIT	JCKSNVLL	UMATILLA[13]	SB	30P	04956	265	3,180
				SB	52P	853252	55	660
				ICFM	30P	04956	74	888
BWXD 7EEM[7]	WEATHER CIRCUIT	JCKSNVLL	JCKSNVLL	SB	52D	412008	44	528
BWXV 7BFT	WEATHER CIRCUIT	JCKSNVLL	MAYPORT	SB	30P	00459	101	1,212
BZRA 7KHC[7]	TELETYPE CIRCUIT	CECILFLD	JCKSNVLL	SB	30T	13047	198	2,376
BZRA 7KHF[7]	TELETYPE CIRCUIT	OCEANA[14]	HILLIARD[15]	SB	30T	13048	198	2,376
BZRA 7PQE	TELETYPE CIRCUIT	PENSACOL[16]	HILLIARD	SB	30T	13241	561	6,732
				NODZ	30T	13241	43	516
				SB	30T	13241 SB1	19	228
				SB	30T	13421 SB2	25	300
BZRV 7RNT[7]	VOICE CIRCUIT	JCKSNVLL	JCKSNVLL	SB	30P	13336	112	1,344
				ABI	30Q	13336 SB	2	24
Air Force								
JRPD 7JH0	AFMPC CIRCUIT[17]	MOODY[18]	JCKSNVLL	PRDNOC	Y	48350	18	216
JUE9 772E[7]	DDN ACCESS CIRCUIT	HRLBTFLD[19]	JCKSNVLL	USTS	W	00997 002	1,492	17,904
Defense Logistics Agency								
NSUV 7A8Y	VOICE CIRCUIT	ORLANDO[20]	JCKSNVLL	SB	30P	13711	291	3,492
				SB	52P	201543	77	924
				SB	58P	201603	37	444
NSUD 7DS7[7]	DATA CIRCUIT	MARIETTA[21]	STAUGSTN[22]	ABI	D	51733	391	4,692
NSUV 7FEF	VOICE CIRCUIT	ORLANDO	JCKSNVLL	SB	30P	60093	291	3,492
				SB	52P	860136	12	144
				SB	58P	860135	26	312
Total Annual Savings Resulting from Termination Actions								$130,668[23]

See footnotes at end of chart.

Footnotes

1/The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/Command Communications Service Designator.
3/Communications Service Authorization - identifies a specific contract with vendor for each service.
4/Naval Air Station Jacksonville, Jacksonville, Florida.
5/Naval Station Norfolk, Norfolk, Virginia.
6/Naval Station Mayport, Mayport, Florida.
7/This circuit was disconnected after our cutoff date, December 1, 1990; therefore, no termination action is required for this circuit.
8/Cape Canaveral, Florida.
9/Logistics Data Communications Network.
10/Aviation Supply Office, Philadelphia, Pennsylvania.
11/Naval Air Station Cecil Field, Jacksonville, Florida.
12/Defense Data Network.
13/Pinecastle Bombing Range, Umatilla, Florida.
14/Naval Air Station Oceana, Virginia Beach, Virginia.
15/Federal Aviation Administration Air Route Traffic Control Center, Hilliard, Florida.
16/Naval Complex Pensacola, Pensacola, Florida.
17/Air Force Military Personnel Command.
18/Moody Air Force Base, Valdosta, Georgia.
19/Hurlburt Field, Valparaiso, Florida.
20/Defense Contract Administration Services Management Area, Orlando, Florida. For CCSD NSUV 7A8Y, the geographic location "JCKSNVLL" represents the Jacksonville Cold Storage Warehouse, Jacksonville, Florida.
21/Defense Contract Services Region - Atlanta, Marietta, Georgia.
22/Defense Contract Services Region Program Representative Office, St. Augustine, Florida.
23/See Appendix G.

Appendix E. Schedule of a Non-Sample Circuit Recommended for Reconfiguration

Rehome Defense Switched Network (DSN) Access Circuit

Current Configuration				Proposed DSN Switch	Leased Costs[1]	
CCSD[3]	CSA[4]	User Location	Current PBX[2] Location		Monthly Recurring Costs	Annual Cost To DoD
JYQV 2BJW	SPCC D 115079	WHITEHOS[5]	TYNDALL[6]	ELLISVLL[7]	$699	$8,388
Recurring Costs of Reconfiguration Action:						
Cost of Leased Access Circuit					(395)	(4,740)[8]
Total Annual Savings Resulting from Reconfiguration Action:						$3,648
Nonrecurring Costs of Reconfiguration Action:						
Installation of Circuit						($ 386)[8]
Total Savings in First Year Resulting from Reconfiguration Action						$3,262[9]

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Private Branch Exchange - the point of access to the DSN for this circuit.
3/ Command Communications Service Designator.
4/ Communications Service Authorization - identifies specific contract with vendor for each service.
5/ Federal Aviation Administration Air Facilities Sector Field Office, Whitehouse, Florida.
6/ Tyndall Air Force Base, Panama City, Florida.
7/ DSN switch, Ellisville, Florida.
8/ Cost estimates obtained at DECCO through a comparison of representative telecommunications vendors' cost estimates.
9/ See Appendix G.

Appendix F. Schedule of Non-Sample Circuits Recommended for Termination

CCSD [2]	Description	From	To	CSA [3]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
Navy						
BTNX 6G5R	LDCN CIRCUIT[4]	PHILDLPH[5]	NORFOLK[6]	ABI 42Q 332878 04	$1,434	$ 17,208
				CPV 42PD 332878 04	130	1,560
BT1X 6G3F	LDCN CIRCUIT	PHILDLPH	NORFOLK	ABI D 15296 003	2,467	29,604
BUED 7A9T	LDCN CIRCUIT	NORFOLK	NORFOLK	ABI 52Q 33893 CPV	426	5,112
				CPV 52D 33893 ABI	12	144
BUED 7B33	LDCN CIRCUIT	NORFOLK	NORFOLK	ABI 52Q 35432 CPV	221	2,652
				ABI 52D 35432 ABI	57	684
BUED 7WDV	LDCN CIRCUIT	NORFOLK	NORFOLK	ABI 52Q 228199 CPV	227	2,724
				CPV 52PD 28199	21	252
BUED 7WDW	LDCN CIRCUIT	NORFOLK	NORFOLK	ABI 52Q 28480 CPV	219	2,628
				CPV 52PD 28480	12	144
BUED 7WDX	LDCN CIRCUIT	NORFOLK	OCEANA[7]	ABI 52Q 28481	219	2,628
		NORFOLK	OCEANA	CPV 52PD 28481	138	1,656
BUED 7WDY	LDCN CIRCUIT	NORFOLK	CHERRYPT[8]	AT D 15238 009	587	7,044
				ABI 44Q 73028 SB	199	2,388
BUED 7WDZ	LDCN CIRCUIT	NORFOLK	CHERRYPT	AT D 15238 010	587	7,044
				ABI 44Q 73028 SB	199	2,388
				SB 44PD 73028	--	--
BUED 7WEB	LDCN CIRCUIT	NORFOLK	WASHNGTN[9]	AT D 15238 011	547	6,564
				ABI 88Q 913002 02	231	2,772
				CP 88PD 913002 02	30	360
BUED 7WEC	LDCN CIRCUIT	NORFOLK	PATXNTRV[10]	AT D 15238 014	580	6,960
				ABI 86Q 325723 01	231	2,772

See footnotes at end of chart.

CCSD [2]	Description	From	To	CSA [3]	Leased Costs [1] Monthly Recurring Costs	Leased Costs [1] Annual Cost To DoD
BUED 7WED	LDCN CIRCUIT	JCKSNVLL[11]	JCKSNVLL	ABI 30Q 13484 SB	216	2,592
				SB 30PD 13484	494	5,928
				SB 52PD 200539	58	696
				AT D 15238 012	580	6,960
				ABI 86Q 326323 01	231	2,772
				CPV 86PD 326323 01	35	420
				SB 60PD 906187	173	2,076
BUED 7WEL	LDCN CIRCUIT	NORLEANS[12]	NORLEANS	ABI 77Q 87183 SCB	294	3,528
BUED 7YGH	LDCN CIRCUIT	NORFOLK	NORFOLK	ABI 52Q 30692 CPV	216	2,592
				CPV 52Q 30692	57	684
Air Force						
JYKB 2AWZ	NTAS VOICE CIRCUIT[13]	TYNDALL[14]	JASPER[15]	ABI P 94466 001	806	9,672
JYKB 2AZB	NTAS VOICE CIRCUIT	ELLINGTN[16]	SEGUIN[17]	ABI P 95707 003	751	9,012
JYKB 2BBA	NTAS VOICE CIRCUIT	CROSS CY[18]	ELLISVLL[19]	ABI P 93551 002	841	10,092
JYKB 2BGU	NTAS VOICE CIRCUIT	LCHARLES[20]	SEGUIN	ABI P 95717 002	734	8,808
JYKB 2BTN	NTAS VOICE CIRCUIT	BOCACHIC[21]	BREWTON[22]	ABI P 99133 001	1,488	17,856
JYKB 2DGV	NTAS VOICE CIRCUIT	JEDBURG[23]	ROBINS[24]	ABI P 97817 002	699	8,388
JYKB 2ETP	NTAS VOICE CIRCUIT	FTLONESM[25]	ELLISVLL	GTES P 93574 001	1,111	13,332
JYKB 2FJT	NTAS VOICE CIRCUIT	OCEANA[26]	CHATHAM[27]	ABI P 96962 001	850	10,200
JYKB 2FJX	NTAS VOICE CIRCUIT	RICHMOND[28]	ELLISVLL	ABI P 93573 001	978	11,736
Total Annual Savings Resulting from Termination Actions						$232,632[29]

See footnotes at end of chart.

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office (DECCO) to communications vendors. The costs shown on this schedule are the net costs to the Government.
2/ Command Communications Service Designator.
3/ Communications Service Authorization - identifies specific contract with vendor for each service.
4/ Logistics Data Communications Network.
5/ Navy Aviation Supply Office, Philadelphia, Pennsylvania.
6/ Naval Station Norfolk, Norfolk, Virginia.
7/ Naval Air Station Oceana, Virginia Beach, Virginia.
8/ Marine Corps Air Station Cherry Point, Cherry Point, North Carolina.
9/ Washington, DC.
10/ Naval Air Test Center, Patuxent River, Patuxent River, Maryland.
11/ Naval Air Station Jacksonville, Jacksonville, Florida
12/ Naval Support Activity, New Orleans, New Orleans, Louisiana.
13/ North American Air Defense Tactical Automatic Voice Network (AUTOVON) System.
14/ Tyndall Air Force Base, Panama City, Florida.
15/ AUTOVON switch, Jasper, Alabama.
16/ Ellington Air Force Base, Houston, Texas.
17/ AUTOVON switch, Seguin, Texas.
18/ Cross City, Florida.
19/ AUTOVON switch, Ellisville, Florida.
20/ Lake Charles, Louisiana.
21/ Boca Chica, Florida.
22/ AUTOVON switch, Brewton, Alabama.
23/ Jedburg, South Carolina.
24/ Robins Air Force Base, Warner Robins, Georgia.
25/ Fort Lonesome, Florida.
26/ Oceana, Virginia.
27/ AUTOVON switch, Chatham, North Carolina.
28/ Richmond, Florida.
29/ See Appendix G.

Appendix G. Summary of Circuits Recommended for Reconfiguration and Termination

	CIRCUIT COUNT[4]	ANNUAL RECURRING COST[1]	RECURRING COST OF RECONFIGURATION ACTION[2]	ANNUAL RECURRING SAVINGS[3]
Sample Circuits Recommended for Reconfiguration[5]	74	$773,064	$212,124	$560,940
Sample Circuits Recommended for Termination[6]	31	130,668	--	130,668
Total	105	$903,732	$212,124	$691,608
Non-Sample Circuits Recommended for Reconfiguration[7]	5	$ 12,648	$ 4,740	$ 7,908
Non-Sample Circuits Recommended for Termination[8]	23	232,632	--	232,632
Total	28	$245,280	$ 4,740	$240,540

Footnotes

1/ The costs of leased telecommunications services are paid by the Defense Commercial Communications Office to communications vendors. The costs shown on this schedule are net costs to the Government.

2/ The recurring cost to complete the reconfiguration or termination action.

3/ The annual recurring savings resulting from the reconfiguration or termination action.

4/ The number of circuits recommended for reconfiguration or termination.

5/ See Appendix C.

6/ See Appendix D.

7/ See Appendix C and Appendix E.

8/ See Appendix F.

Appendix H. Schedule of Future Years Defense Program Impact of Reconfiguration and Termination Opportunities

Program	Element No.	Element Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	6-Year Total
Recurring Savings (Operation and Maintenance)									
Intelligence and Communications	0303126	Long-Haul Communications	$1,533,202[1/]	$1,568,312	$1,604,384	$1,641,284	$1,679,855	$1,721,852	$9,747,208
Total Recurring Savings			$1,533,202	$1,568,312	$1,604,384	$1,641,284	$1,679,855	$1,720,171	$9,747,208
Nonrecurring Costs (Operation and Maintenance)									
Intelligence and Communications	0303126	Long-Haul Communications	($ 122,024)						($ 122,024)
Total Nonrecurring Costs			($ 122,024)						($ 122,024)
Net Recurring Savings			$1,411,178	$1,568,312	$1,604,384	$1,641,284	$1,679,855	$1,720,171	$9,625,184[2/]

Footnotes

1/ The amount shown is a projection of a statistical sample that is plus or minus 16.6 percent or plus or minus $254,509 at a 90-percent confidence level.

2/ This chart summarizes sample results identified in Appendixes C and D. Net savings in the first year are based on estimated costs to lease the circuits and to buy and install the equipment needed for the reconsiderations proposed in this report. Using the FY 1994 recurring cost avoidance ($1,533,202) for the base year, we applied the established DoD inflation factors (2.29 percent for FY 1995, 2.30 percent for FY 1996, 2.30 percent for FY 1997, 2.35 percent for FY 1998, and 2.40 percent for FY 1999) for the next 5 fiscal years and calculated the total net savings for the Future Years Defense Program to be approximately $9.6 million.

Appendix I. Schedule of Future Years Defense Program Impact of Reconfiguration and Termination Opportunities for Non-Sample Circuits

Program	Element No.	Element Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	6-Year Total
Recurring Savings (Operation and Maintenance)									
Intelligence and Communications	0303126F	Long-Haul Communications	$102,744	$105,097	$107,514	$109,987	$112,572	$115,273	$ 653,187
	0303126N		137,796	140,952	144,193	147,510	150,976	154,600	876,027
Total Recurring Savings			$240,540	$246,049	$251,707	$257,497	$263,548	$269,873	$1,529,214
Nonrecurring Costs (Operation and Maintenance)									
Intelligence and Communications	0303016F	Long-Haul Communications	($ 386)						($ 386)
Net Recurring Savings			$240,154	$246,049	$251,707	$257,497	$263,548	$269,873	$1,528,828

Note: This chart summarizes results for non-sample circuits identified in Appendixes C, E, and F. The non-sample circuits were identified during our audit work in the Jacksonville area. Since the circuits were not part of our audit sample, cost avoidances for them were projected separately for the Future Years Defense Program and were not included in the statistical projection of our results for sample circuits in the Jacksonville area. Using the FY 1994 recurring cost avoidance ($240,540) for the base year, we applied the established DoD inflation factors (2.29 percent for FY 1995, 2.30 percent for FY 1996, 2.30 percent for FY 1997, 2.35 percent for FY 1998, and 2.40 percent for FY 1999) for the next 5 fiscal years and calculated the total net savings for the Future Years Defense Program to be approximately $1.5 million.

Appendix J. Summary of Potential Benefits Resulting from Audit

Recommendation Reference	Description of Benefit	Amount and/or Type of Benefit
1. and 2.	Economy and Efficiency. Reconfiguring the circuits identified help ensure that the most effective, efficient, and least costly service is obtained. Disconnecting circuits that no longer have a valid requirement will result in immediate cost avoidances.	Monetary benefits of $11,154,012* (Funds put to better use-budget year 1994). Appropriation-Operation and Maintenance

*Using statistical sampling techniques, we determined that reconfiguration and termination solutions could reduce the cost of the 368 DCS circuits by a projected $1,533,202 annually (plus or minus 16.6 percent or plus or minus $254,509 at a 90-percent confidence level). The 6-year total net cost reductions and net recurring cost reductions over the Future Years Defense Program (FY 1994 through FY 1999) pertaining to the cutoff date for the audit as shown in Appendixes H and I totaled $11,154,012. The actual benefits will vary based on management actions and current needs and users of the sampled circuits.

Appendix K. Organizations Visited or Contacted

Office of the Secretary of Defense

Office of the Assistant Secretary of Defense (Command, Control, Communications and Intelligence), Washington, DC

Department of the Army

Office of the Director of Information Systems for Command, Control, Communications and Computers, Washington, DC
Headquarters, U.S. Army Forces Command, Fort McPherson, GA
Headquarters, U.S. Army Information Systems Command, Fort Huachuca, AZ
U.S. Army Commercial Communications Office, Fort Huachuca, AZ
Headquarters, Florida Army National Guard, St. Augustine, FL
Camp Blanding, Florida Army National Guard, Starke, FL

Department of the Navy

Office of the Director, Space and Electronic Warfare, Washington, DC
Headquarters, Naval Computer and Telecommunications Command, Washington, DC
Naval Air Station Cecil Field, Jacksonville, FL
Naval Air Station Jacksonville, Jacksonville, FL
Naval Computer and Telecommunications Station
Naval Reserve Readiness Command, Region 8
Fleet Area Control and Surveillance Facility
Naval Station Mayport, Mayport, FL

Department of the Air Force

Office of the Assistant Chief of Staff, Systems for Command, Control, Communications and Computers, Washington, DC
Headquarters, Air Force Communications Command,* Scott Air Force Base, IL
Air Force Telecommunications Certification Office, Scott Air Force Base, IL
125th Fighter Interceptor Group, Florida Air National Guard, Jacksonville International Airport, Jacksonville, FL

*Now the Air Force Command, Control, Communications and Computer Agency.

Defense Agencies

Defense Information Systems Agency
- Acquisition Management Organization, Washington, DC
  - Defense Commercial Communications Office, Scott Air Force Base, IL
  - Telecommunications Management and Services Office, Scott Air Force Base, IL

Defense Logistics Agency
- Jacksonville Cold Storage Warehouse, Jacksonville, FL

Defense Mapping Agency
- Technical Service Center, Jacksonville, FL

Non-DoD Organizations

Federal Aviation Administration
- Airway Facility Sector Field Office, Whitehouse, FL
- Jacksonville Air Route Traffic Control Center, Hilliard, FL

United States Coast Guard Group, Mayport, FL

Appendix L. Report Distribution

Office of the Secretary of Defense

Comptroller of the Department of Defense
Assistant Secretary of Defense (Command, Control, Communications and Intelligence)
Assistant to the Secretary of Defense (Public Affairs)

Department of the Army

Secretary of the Army
Auditor General, Department of the Army

Department of the Navy

Secretary of the Navy
Assistant Secretary of the Navy (Financial Management)
Auditor General, Naval Audit Service

Department of the Air Force

Secretary of the Air Force
Assistant Secretary of the Air Force (Financial Management and Comptroller)
Auditor General, U.S. Air Force Audit Agency

Defense Agencies

Director, Defense Contract Audit Agency
Director, Defense Information Systems Agency
Director, Defense Logistics Agency
Director, Defense Mapping Agency
Inspector General, Central Imagery Office
Inspector General, Defense Intelligence Agency
Inspector General, National Security Agency
Director, Defense Logistics Studies Information Exchange

Non-DoD Organizations

Office of Management and Budget
U.S. General Accounting Office
National Security and International Affairs Division
Technical Information Center

Chairman and Ranking Minority Member of Each of the Following Congressional Committees and Subcommittees:

Senate Committee on Appropriations
Senate Subcommittee on Defense, Committee on Appropriations
Senate Committee on Armed Services
Senate Committee on Commerce, Science, and Transportation
Senate Subcommittee on Communications,
Committee on Commerce, Science, and Transportation
Senate Committee on Governmental Affairs
House Committee on Appropriations
House Subcommittee on Defense, Committee on Appropriations
House Committee on Armed Services
House Subcommittee on Oversight and Investigations
Committee on Armed Services
House Committee on Energy and Commerce
House Subcommittee on Telecommunications and Finance,
Committee on Energy and Commerce
House Committee on Government Operations
House Subcommittee on Legislation and National Security,
Committee on Government Operations

Part IV Management Comments

Department of the Army

DEPARTMENT OF THE ARMY
OFFICE OF THE SECRETARY OF THE ARMY
WASHINGTON, DC 20310-0107

Office, Director of Information Systems for Command, Control, Communications, & Computers

15 FEB 1994

SAIS-C4X (36-2b)

MEMORANDUM FOR INSPECTOR GENERAL, DEPARTMENT OF DEFENSE, ATTN: ASSISTANT INSPECTOR GENERAL FOR AUDITING, 400 ARMY NAVY DRIVE, ARLINGTON, VA 22202-2884

SUBJECT: Draft Report on Telecommunications Circuit Allocation Programs-Jacksonville Area (Project No. ORD-0043.03)

The following information is provided regarding the Draft Report on Telecommunications Circuit Allocation Programs-Jacksonville Area (Project No. ORD-0043.03).

Finding/Recommendation 1.a. Nonconcur. The URED7C1D was one of the drops on a Developmental Army Readiness Mobilization Systems (DARMS) multipoint circuit. The circuit was disconnected 19 Feb 93 under the 1992 Review and Revalidation. Since beginning in 1990, DARMS used WECO Dataphone II, Level II diagnostics monitoring and control from the host computer, a dial-up connection would not have technically satisfied the requirement. The DARMS has since been changed to a Codex diagnostic monitoring which has the ability to monitor dial-up connections.

Finding/Recommendation 1.b. As stated above, the Army circuit discussed in Appendix C of the report was disconnected 19 Feb 93.

Finding/Recommendation 2. Nonconcur. UA09765H was a DDN requirement that was never provided and was cancelled 17 Dec 90 at the request of the Defense Courier Service.

for COL, GS
EDWARD R. BALDWIN JR.
Major General, GS
Director of C4 Modernization and Integration

CF:
SAAG-PRF-E

Department of the Navy

DEPARTMENT OF THE NAVY
OFFICE OF THE ASSISTANT SECRETARY
(Research, Development and Acquisition)
WASHINGTON, D C 20350-1000

29 Mar 1994

MEMORANDUM FOR THE DIRECTOR, READINESS AND OPERATIONAL SUPPORT DIRECTORATE, DEPARTMENT OF DEFENSE INSPECTOR GENERAL

Subj: DRAFT AUDIT REPORT ON TELECOMMUNICATIONS CIRCUIT ALLOCATION PROGRAMS - JACKSONVILLE AREA (PROJECT NO. ORD-0043.03)

Ref: (a) DODIG memo of 15 Dec 93, same subj

Encl: (1) List of Terminated Circuits

I am responding to the subject draft audit report forwarded by reference (a). The Department of the Navy concurs with the findings and recommendations. Since the audit, Navy has terminated 65 percent of the circuits (117 of 180) on which action is recommended. The terminated circuits are listed in enclosure (1).

Most of the remaining actions have either been re-awarded or are currently programmed for reconfiguration on the Defense Information Systems Network (DISN). Reconfiguration of DISN is a Defense Information Systems Agency (DISA) led action under Secretary of Defense direction. Navy will address specific actions on the remaining circuits when the final report is issued.

D. A. RICHWINE
MajGen, USMC
Deputy Assistant Secretary of
the Navy (C4I/EW/Space) (Acting)

Copy to:
NAVINSGEN
NAVCOMPT (NCB-53)

LIST OF TERMINATED CIRCUITS

JACKCKT.XLS

	DODIG AUDIT OF JACKSONVILLE AREA CIRCUITS				
	TERMINATED CIRCUITS			DATE: 3 FEB 94	
NUM	PAGE	CCSD	CSA	TDATE	
1	35	BUED7EMC	MCIT D 565526 028	Apr-93	
2		BUED7EME	MCIT D 565526 038	Apr-93	
3	37	BAB7BMV	SB 31T 00028	Sep-92	
4	39	BWXD7KQV	SB D 101833 SB2	Aug-93	
5		BWXD7KQV	SB D 101833 SB1	Aug-93	
6		BWXD7KQV	SB D 101833	Aug-93	
7	41	BUED7EJ0	SB D 72999	Jan-94	
8		BUED7EJ0	SB 52D 700145	Jan-94	
9		BUED7EJ0	SB 56D 700029	Jan-94	
10		BUED7EJ1	SB D 72996	Jan-94	
11		BUED7EJ1	SB 52D 700002	Jan-94	
12		BUED7EJ1	SB 56D 700001	Jan-94	
13		BUED7EJQ	SB D 72997	Jan-94	
14		BUED7EJQ	SB 52D 427012	Jan-94	
15		BUED7EJQ	SB 56D 427011	Jan-94	
16	45	BUED7BJY	SB 30D 13679	Jan-94	
17		BUED7BJZ	SB 30D 13678	Jan-94	
18		BUED7BKK	SB 30D 13677	Jan-94	
19		BUE9724W	GTES 30D 13768	Apr-93	
20		BUE978V3	GTES 52D 70003	Apr-93	
21		BKLR7HNZ	AT DP 51835	Jan-92	
22	50	BT4X6H5J	USTS D 00768 001	Apr-92	
23		BT4X6H5J	AT D 08749	Apr-92	
24		BUED7M1B	AT D 89700 932	Nov-91	
25		BUED7M1C	AT D 89700 933	Nov-91	
26		BZMV7NMX	AT P 08760	Aug-92	
27		BUED7H2J	ABI D 03964	Jun-93	
28		BUED7H2J	SB 48D 700555	Jun-93	
29		BUED7H2J	SB 52D 702562	Jun-93	
30	52	BUED7KC0	ABI D 33111	Apr-92	
31		BUED7KC1	ABI D 33112	Apr-92	
32		BUED7KC2	ABI D 33113	Apr-92	
33		BUED7KC3	ABI D 33114	Apr-92	
34	54	BUED7JRH	ABI D 33101	Jul-92	
35		BUED7KKZ	ABI D 33130	Jul-92	
36	57	BZMV7PSP	SB 30P 13243	Nov-92	
37		BZMV7PSP	SB 30P 13243 SB2	Nov-92	
38		BZMV7PSP	ABI 30Q 13243 SB	Nov-92	
39		BZMV7PSP	NODZ 30P 13243	Nov-92	
40		BZMV7PSP	SB 30P 13243 SB1	Nov-92	
41	58	BUED7ER3	ABI D 27069	Mar-93	
42		BUED7KDU	SB 77LD 84231	Jul-93	
43		BUED7KDU	ABI Q 84231 SB	Jul-93	
44		BUED7KDV	AT 05 X 00310	Jul-93	
45		BUED7NC6	ATW 89700 881	May-93	
46		BUED7URD	ABI D 15537	Feb-93	
47	60	BUED7E2B	ABI D 32699	Dec-93	
48	62	BUE97449	GTES 31D 279589	Dec-92	

JACKCKT.XLS

	DODIG AUDIT OF JACKSONVILLE AREA CIRCUITS				
	TERMINATED CIRCUITS			DATE: 3 FEB 94	
NUM	PAGE	CCSD	CSA	TDATE	
49	65	BUED7BBE	AT D 97540	Jun-93	
50	66	BUED7E2C	SB 31 D 26861	Nov-91	
51		BUED7E2C	ABI 31 Q 26861 SB	Nov-91	
52	68	BUED7H1T	ABI D 93260	Dec-92	
53	71	BABV7MHH	AT 42X 36751	Dec-92	
54		BCLR7BH2	SB 30 D 13861	Sep-92	
55		BCLR7BH3	SB 30 D 13863	Sep-92	
56		BKLV7LYT	SB 30 C 13320	Sep-92	
57		BKLY7UVC	SB 30 D 65011	Sep-92	
58		BKLY7UVC	SB 52 D 700054	Sep-92	
59		BKLY7UVC	SB 58 D 700379	Sep-92	
60		BT1X6H0V	ABI D 15296 004	Jan-94	
61		BUED7AF9	SB 31 D 13216	Jan-92	
62		BUED7AF9	ABI 31 Q 13216 SB	Jan-92	
63		BUED7AL3	SB 30 D 13652	May-93	
64		BUED7ALG	SB 31 D 27960	May-93	
65		BUED7EJ2	SB 31 D 226859	May-93	
66		BUED7EJ3	SB 31 D 226858	May-93	
67		BUED7EJ4	SB 31 D 226857	May-93	
68		BUED7GXQ	SB 31 P 00935	May-93	
69		BUED7GXQ	ABI 31 Q 00935 SB	May-93	
70		BUED7UEW	SB 31 D 14069	Jun-92	
71		BUED7UEW	ABI 31 Q 14069 SB	Jun-92	
72		BUED7WEK	SB 31 PD 13115	Jan-93	
73		BUED7WEK	ABI 31 Q 13115 SB	Jan-93	
74		BUED7WEP	SB 31 PD 13113	Jan-93	
75		BUED7WEP	ABI 31 Q 13113 SB	Jan-93	
76		BUER7GXP	SB 31 DP 00934	Jan-93	
77		BUER7GXP	ABI 31 Q 00934 SB	Jan-93	
78	72	BUE977GW	GTES 52 D 412017	Dec-92	
79		BUMV7JKX	SB 30 P 04956	Dec-91	
80		BUMV7JKX	SB 52 P 853252	Dec-91	
81		BUMV7JKX	ICFM 30 P 04956	Dec-91	
82		BWXD7EEM	SB 52 D 412008	Jul-92	
83		BZRA7KHC	SB 30 T 13047	Dec-92	
84		BZRA7KHF	SB 30 T 13048	Dec-92	
85		BZRV7RNT	SB 30 P 13336	Nov-92	
86		BZRV7RNT	ABI 30 Q 13336 SB	Nov-92	
87	75	BT1X6G3F	ABI D 15296 003	Oct-92	
88		BUED7A9T	ABI 52 Q 33893 CPV	Oct-92	
89		BUED7A9T	CPV 52 D 33893 ABI	Oct-92	
90		BUED7B33	ABI 52 Q 35432 CPV	Oct-92	
91		BUED7B33	CPV 52 D 35432 ABI	Oct-92	
92		BUED7WDV	ABI 52 Q2 28199 CPV	Oct-92	
93		BUED7WDV	CPV 52 PD 28199	Oct-92	
94		BUED7WDW	ABI 52 Q 28480 CPV	Oct-92	
95		BUED7WDW	CPV 52 PD 28480	Oct-92	
96		BUED7WDX	ABI 52 Q 28481	Oct-92	

JACKCKT XLS

	DODIG AUDIT OF JACKSONVILLE AREA CIRCUITS				
	TERMINATED CIRCUITS			DATE: 3 FEB 94	
NUM	PAGE	CCSD	CSA	TDATE	
97		BUED7WDX	CPV 52 PD 28481	Oct-92	
98		BUED7WDY	AT D 15238 009	Oct-92	
99		BUED7WDY	ABI 44 Q 73028 SB	Oct-92	
100		BUED7WDZ	AT D 15238 010	Oct-92	
101		BUED7WDZ	ABI 44 Q 73028 SB	Oct-92	
102		BUED7WDZ	SB 44 PD 73028	Oct-92	
103		BUED7WEB	AT D 15238 011	Oct-92	
104		BUED7WEB	ABI 88 Q 91300 202	Oct-92	
105		BUED7WEB	CP 88 PD 91300 202	Oct-92	
106		BUED7WEC	AT D 15238 014	Oct-92	
107		BUED7WEC	ABI 86 Q 32572 301	Oct-92	
108	76	BUED7WED	ABI 30 Q 13484 SB	Oct-92	
109		BUED7WED	SB 30 PD 13484	Oct-92	
110		BUED7WED	SB 52 PD 200539	Oct-92	
111		BUED7WED	AT D 15238 012	Oct-92	
112		BUED7WED	ABI 86 Q 32632 301	Oct-92	
113		BUED7WED	CPV 86 PD 32632 301	Oct-92	
114		BUED7WED	SB 60 PD 906187	Oct-92	
115		BUED7WEL	ABI 77 Q 87183 SCB	Oct-92	
116		BUED7YGH	ABI 52 Q 30692 CPV	Oct-92	
117		BUED7YGH	CPV 52 Q 30692	Oct-92	

Department of the Air Force

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

22 FEB 1994

MEMORANDUM FOR ASSISTANT INSPECTOR GENERAL FOR AUDITING
OFFICE OF THE INSPECTOR GENERAL
DEPARTMENT OF DEFENSE

FROM: HQ USAF/SCM
1250 Air Force Pentagon
Washington, DC 20330-1250

SUBJECT: Draft Audit Report on Telecommunications Circuit Allocation Programs - Jacksonville Area (Project No. ORD-0043.03) - INFORMATION MEMORANDUM

We have reviewed subject draft audit and are providing comments for inclusion in your report. The data for this audit reflects a cutoff date of 1 Dec 90. Since that time much progress has been made in correcting deficiencies in the provisioning and implementation of long haul telecommunications services. The Air Force implemented the AFNET program which addressed numerous shortfalls identified by this and previous long haul telecommunications audits. The benefits of this Air Force initiative were later expanded as AFNET was capitalized by DISA under the Defense Information Systems Network (DISN) on 1 Oct 93.

Management actions have also taken place to correct deficiencies and internal controls have been improved (e.g., the Review and Revalidation (R&R) process directed by OASD C3I). Potential monetary benefits listed in this report do not take into account the fact that the R&R would have identified unnecessary circuits or that a plan has been initiated to bundle circuits onto DISN. Bundling of circuits under AFNET (now DISN) began in Jan 92 and this bundling process continues today.

Specific comments to the draft audit report are attached.

JOSEPH M. NARSAVAGE, JR., Col, USAF
Director of Mission Systems
DCS/Command, Control,
Communications, and Computers

Attachment:
Comment to Draft Audit Report

Final Report Reference	
	COMMENTS TO DRAFT AUDIT REPORT -- TELECOMMUNICATIONS CIRCUIT ALLOCATION - JACKSONVILLE
Page i	1. Page i, Potential Benefits of Audit. These cost savings would/should have been found through the Review & Revalidation (R&R) process which began in FY93 and should be completed by Mar 94. Therefore, these figures should not be calculated through FY99.
Page 3	2. Page 4, Introduction, fifth line. Air Force Communications Command should read Headquarters Air Force Command, Control, Communications, and Computer Agency (AFC4A).
Page 3 Footnote 3	3. Page 4, footnote 2 shows the TCO certification functions were transferred to DISA effective October 1, 1993. This action or establishment of a transfer date has not taken place.
Page 7	4. Page 13, Reconfiguration and Termination of Special-Purpose Circuits. This section states three criteria necessary to show that a valid requirement exists. The bullet in line 8 states that "the sample circuit must have been configured in the most cost-effective manner." The fact that alternative technical solutions exist to meet a user requirement in no way invalidates the legitimacy of that requirement. This bullet should be deleted.
Page 9	5. Page 17, Establishing dial-up service. The statement, special-purpose circuits did not have sufficient utilization (traffic volume) to justify dedicated service is incorrect. Traffic volume is not the sole rationale for a dedicated circuit. Operational requirements and technical characteristics of the requirements determine the need for all special-purpose circuits.
Deleted	6. Page 20, para. 1. Air Force Communications Command should read Headquarters Air Force Command, Control, Communications, and Computer Agency (AFC4A).
Deleted	7. Page 20, para. 1a. This statement is inconsistent with DOD direction on long haul provisioning responsibilities for user requirements. DISA is responsible for determining technical solutions and should perform reconfiguration analysis for all network/commercial reconfigurations for DOD.
Page 12 & Page 15	8. Page 21, para 1b. and 2. These sections should read that: "The AFC4A should inform user organizations that they should submit Requests for Service to disconnect service if the service is in fact no longer necessary."
Deleted	9. Page 21, para 2. Air Force Communications Command should read Headquarters Air Force Command, Control, Communications, and Computer Agency (AFC4A).
Page 40	10. Page 47. The two circuits listed JPPD 7JSD and JRPD 7JH2 have been identified for reconfiguration
Page 41	11. Page 48. Circuit JPPD 7XHZ is a duplicate of circuit listed on page 43.

	Final Report Reference
12. Page 66. TSRs were issued to discontinue the two circuits listed under Air Force.	Page 59
13. Page 72. TSRs were issued to discontinue the two circuits listed under Air Force.	Page 65
14. Page 76, Appendix F, Schedule of Non-Sample Circuits Recommended For Termination (Cont'd). The 9 circuits on this page listed under Air Force were disconnected prior to 9 Dec 92.	Page 69
15. Page 80, Appendix H, Schedule of Future Years Defense Program Budgetary Impact for Sample Circuits Recommended for Reconfiguration and Termination. Potential monetary benefits for FY95 and beyond should be deleted. Circuits no longer required would be identified under the R&R for termination during FY94. Circuits for reconfiguration and/or bundling would be identified by DISA by 1 Oct 94 based on the guidelines of the Joint Staff's DISN Acceleration Plan. Additionally, the PE 33126F cited for cost savings is the Air Force's common user program element. Dedicated circuit savings would be reflected in the dedicated program elements used by the requiring organization	Page 72
16. Page 81, Appendix I, Schedule of Future Years Defense Program Budgetary Impact for Non-Sample Circuits Recommended for Reconfiguration and Termination. Comments are the same as in item 15 above.	Page 73

Defense Information Systems Agency

DEFENSE INFORMATION SYSTEMS AGENCY
701 S. COURT HOUSE ROAD
ARLINGTON, VIRGINIA 22204-2199

IN REPLY REFER TO: AGA

22 February 1994

MEMORANDUM FOR INSPECTOR GENERAL, DEPARTMENT OF DEFENSE
ATTN: Director, Readiness and Operational Support Directorate

SUBJECT: Draft Audit Report on Telecommunications Circuit Allocation Program - Jacksonville Area (Project No. ORD-0043.03)

Reference: DoDIG Memo, subject as above, 15 Dec 93

1. As requested by the reference, the Defense Information Systems Agency (DISA) reviewed the subject draft report and determined that the issues presented do not require our comment. Therefore, we are not providing comments to the draft report.

2. However, we do suggest that, given the length of time elapsed since the audit was conducted, you consider updating the report to reflect current actions as a report based on 1990 data has mainly historical value.

3. If you have question on this response, contact Ms. Sandra Leicht, Audit Liaison, on (703) 692-5326 for assistance.

Philip D. Lamela
for RICHARD T. RACE
Inspector General

Quality Information for a Strong Defense

Defense Logistics Agency

DEFENSE LOGISTICS AGENCY
HEADQUARTERS
CAMERON STATION
ALEXANDRIA, VIRGINIA 22304-6100

IN REPLY REFER TO DDAI

24 FEB 1994

MEMORANDUM FOR ASSISTANT INSPECTOR GENERAL FOR AUDITING,
DEPARTMENT OF DEFENSE

SUBJECT: OIG Draft Report, Telecommunications Circuit Allocation Programs-Jacksonville Area, (Project No. ORD-0043.03)

Enclosed is our response to your request of 15 December 1993.

JACQUELINE G. BRYANT
Chief, Internal Review Office

2 Encls
w/att

cc:
CANI

TYPE OF REPORT: AUDIT DATE OF POSITION: 22 FEB 1994

PURPOSE OF POSITION: INITIAL POSITION

AUDIT TITLE: Telecommunications Circuit Allocation Programs-Jacksonville Area (Project No. 0RD-0043.3)

FINDING A: Reconfiguration and Termination of Special-Purpose Circuits. Government Activities in the Jacksonville area are paying for special purpose circuits that are not cost-effecive or are no longer required. The Departments of the Army, Navy, and Air Force, the Defense Logistics Agency and the Defense Mapping Agency did not effectively identify reconfiguration opportunities and did not adequately revalidate requirements for 368 telecommunications circuits and equipment items, costing about $3.3 million annually, that were leased or owned by DoD organizations in the Jacksonville area.

DLA COMMENTS: Partially concur. Some not all of the circuits the IG reported on were unnecessary. We have reviewed the 3 DLA circuits identified in the report and are taking necessary actions. We are in the process of completing these actions. The DLA Staff is constantly exploring effective reconfiguration opportunities. We participate in the review and revalidation process and the reaward of expired contracts program. We are working with DISA HQ in determining whether it is cost effective to install DSN (old AUTOVON) at our off-premise extension locations in Florida.

DCMDS Atlanta GA has reviewed and revalidated CCSD NSUV 7A8Y as a valid requirement. A reaward request (attachment 1) was submitted to DISA Scott AFB IL. DISA Scott processed a telecommunications service order (attachment 2) to Defense Commercial Communications Office (DECCO). DLA is awaiting a status of acquisition message from DECCO.

A request for CCSD NSUD 7DS7 (attachment 3) was submitted to DISA Scott AFB to disconnect service in its entirety. This CCSD could not be discontinue until a cost effective alternative via Defense Information System Network was finalized. NSUD 7DS7 will be disconnected via TSR DF04FEB940051. Prospective disconnect date is Mar 1994. Estimated FY94 savings $20,592.

CCSD NSUV 7FEF was disconnected, effective 11 May 93 (attachment 4). Actual FY93 savings $1,316, FY94 $3,948.

ACTION OFFICER: Mrs. Patricia F. Brown, CANI, X45157
PSE REVIEW/APPROVAL: Mr. Thomas J. Knapp, Executive Director, Information Services, CAN, x46211, 4 Feb 94
COORDINATION: Joel Heiser, CAILP, 2 Feb 94
D.Stumpf, DDAI, 7 Feb 94
J. Bryant, DDAI, 15 Feb 94

DLA APPROVAL:

4 Attachments

22 FEB 1994

LAWRENCE P FARRELL, JR.
Major General, USAF
Principal Deputy Director

TYPE OF REPORT: AUDIT DATE OF POSITION: 22 FEB 1994

PURPOSE OF POSITION: INITIAL POSITION

AUDIT TITLE: Telecommunications Circuit Allocation Programs-Jacksonville Area (Project No. 0RD-0043.3)

RECOMMENDATION A.2: Recommend that the Director, Defense Logistics Agency, require the appropriate user organizations to initiate Requests for Service to disconnect their respective circuits listed in Appendixes D and F.(Pg 21)

DLA COMMENTS: Partially concur. We are taking actions to disconnect unnecessary cirucits as appropriate. See our comments on the finding.

DISPOSITION:
(X) Action is Ongoing. Estimated Complete Date: 31 Mar 94

RECOMMENDATION MONETARY BENEFITS:
DLA COMMENTS: N/A
ESTIMATED REALIZATION DATE:
AMOUNT REALIZED: FY93 - $1,316; FY94 - $24,540
DATE REALIZED: N/A

ACTION OFFICER: Mrs. Patricia F. Brown, CANI, X45157
PSE REVIEW/APPROVAL: Mr. Thomas J. Knapp, Executive Director, Information Services, CAN, x46211, 4 Feb 94
COORDINATION: Joel Heiser, CAILP, 2 Feb 94
M. Chapin, FOB, 15 Feb 94
D. Stumpf, DDAI, 7 Feb 94
J. Bryant, DDAI, 15 Feb 94

DLA APPROVAL:

22 FEB 1994

LAWRENCE P. FARRELL, JR.
Major General, USAF
Principal Deputy Director

Defense Mapping Agency

DEFENSE MAPPING AGENCY
8613 LEE HIGHWAY
FAIRFAX VIRGINIA 22031-2137

CMMA

04 FEB 1994

MEMORANDUM FOR INSPECTOR GENERAL, DEPARTMENT OF DEFENSE
ATTN: Assistant Inspector General for Auditing

SUBJECT: Draft Audit Report on Telecommunications Circuit Allocation Programs - Jacksonville Area (Project No. ORD-0043.03)

Reference: Your memorandum and draft audit report, 15 December 1993, subject as above.

1. The Defense Mapping Agency (DMA) has reviewed the referenced draft report and concurs with the findings and recommendation.

2. The requirement for these full-time circuits (NUE973A5 and NUE973A6) was canceled in December 1993. Action to discontinue both circuits is documented in Telecommunications Service Request DZ05JAN940019 and DZ05JAN940020.

3. DMA Systems Center, Resources, Plans and Programs Directorate is responsible for this program and will be the primary office for ensuring the completion of these actions.

4. If you have any questions, your staff may contact Regina Dickens, DMA Office of Comptroller, Management Analysis Office, (301) 227-2275.

FOR THE DIRECTOR:

W. DOUGLAS SMITH
Comptroller

Audit Team Members

William F. Thomas
John A. Gannon
Robert M. Murrell
Annie L. Sellers
Mark A. Ives
Patrick J. Nix
Vickie Nguyen
Heather L. Spudich
James D. Stockard
Frank M. Ponti
Nancy C. Cipolla
Susan D. Grozier